IT Enterprise
2015 training catalog

Summer Edition

1-800-418-6789
www.learnsmartsystems.com

For more information about LearnSmart training contact us toll-free at 1-800-418-6789.

LearnSmart™
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Cisco

CCNA Routing and Switching Series

Operation of IP Data Networks
Course Number: 912
Time: 60 Minutes
Number of Quizzes: 4 Quizzes

In LearnSmart’s Operation of IP Data Networks video training, network administrators will focus on the fundamentals of a network. They will also learn about the operation of IP data networks, which will help administrators configure and troubleshoot issues moving forward. Furthermore, topics covered in this course align with CCNA’s Routing and Switching exam topics.

Applications and Protocols in a Data Network..................... 912_001
Components of an Ethernet Network............... 912_002

LAN Switching and WAN Technologies
Course Number: 913
Time: 120 Minutes
Number of Quizzes: 7 Quizzes

In LearnSmart’s LAN Switching and WAN Technologies video training, network administrators are trained and instructed in the topics of LAN switching and WAN technologies. Additionally, it looks at the fundamentals of the network, particular variables of Ethernet, switching, broadcast and collision domains, and basic switching concepts. The concepts encompassed within LAN switching and WAN technologies are part of the objectives covered in the CCNA Routing & Switching certification exam.

Switching Technologies ......................... 913_001
Virtual LANs........................................ 913_002
Spanning Tree............................................. 913_003
WAN Technologies................................. 913_004
WAN Serial Connections......................... 913_005
PPP over Ethernet (PPPoE)....................... 913_006

IPv4 and IPv6
Course Number: 914
Time: 60 Minutes
Number of Quizzes: 4 Quizzes

In this course, you will start with a review of the types of address classes in both IPv4 and IPv6, and the role of IP addresses in network routing. You’ll also take a look at subnetting and Variable Length Subnet Masks. The last topics covered are the structure of the IPv6 address, how to define types of IPv6 addresses, and then the steps to configuring an IPv6 address. IPv6 is an important topic to be familiar with, as the world moves faster towards implementing IPv6 as a whole.

IPv4 .......................................................... 914_001
IPv6 ......................................................... 914_002

System and Network Management
Course Number: 915
Time: 75 Minutes
Number of Quizzes: 6 Quizzes

Study about system and network management, and discuss the fundamentals of how the router boot process works. But first, take a look at how an IOS device boots up, as well as the boot loader and operating system that is on these devices. Then you will go over the different licensing options and how to best utilize those licenses, in order to get the features you require for correct operation of your devices. Finally, you will learn about Netflow, the importance of it, and the configurations necessary, in order to get proper Netflow statistical data from as many devices as possible to ensure optimal network performance.

Router Startup ........................................... 915_001
Basic Router and Switch Management ........... 915_002
Basic Network Management........................ 915_003
Netflow Management................................. 915_004

IP Routing Technologies
Course Number: 916
Time: 90 Minutes
Number of Quizzes: 7 Quizzes

Deepen your understanding of IP routing technologies and the fundamentals of how routing decisions are made within devices. Start off by looking at Cisco Express Forwarding, or CEF, packet forwarding, and the Layer 3 route table lookup process. Listen to details about routing and routing protocols, and the difference between static and dynamic routing. You will be introduced to the concept of Link State versus Distance Vector routing protocols, and find out about some of the differences between the routing protocols. And then focus on these particular routing protocols, EIGRP and OSPF, their fundamentals, and how to successfully configure each one.

Routing Concepts..................................... 916_001
Cisco Router and Switch Setup.................... 916_002
Routing Elements.................................... 916_003
OSPF....................................................... 916_004
EIGRP..................................................... 916_005
IP Services and Security
Course Number: 917
Time: 105 Minutes
Number of Quizzes: 5 Quizzes

You will concentrate on some IP services, and router and switch security. To start, you will look at DHCP and how to configure it on a router. Time is also spent discussing some of the commands that can modify DHCP. Then there are access control lists, where you will discover what they are, what they do, and the different types. You will also learn about Network Address Translation and the network time protocol. After the network time protocol, you will go over the different types of high availability protocols. And finally, Chapter 6 is the section dedicated to Cisco router and switch security.

DHCP ................................................. 917_001
ACL ...................................................... 917_002
NAT ....................................................... 917_003
NTP ....................................................... 917_004
High Availability .................................. 917_005
Securing Cisco Routers and Switches .............. 917_006

Troubleshooting Routers and Switches
Course Number: 918
Time: 105 Minutes
Number of Quizzes: 4 Quizzes

You will learn the skills to troubleshoot any router or switch issue. Students will walk through troubleshooting procedures and methodology. Most people have their own method of troubleshooting. It’s important that you learn to develop your own style as well. The methodology covered within this course will help to push you in the right direction in developing your own troubleshooting style. Explore how to troubleshoot IP addressing and switching problems, and routing problems, as well as how to troubleshoot access control lists, WANs, and layer interface issues to enable efficient and secure network connectivity.

Troubleshooting Methodologies .................. 918_001
IP Addressing & Switching Problems ............ 918_002
Routing Problems .................................... 918_003
Miscellaneous Troubleshooting .................. 918_004

Test Me: Cisco 200-120 CCNA
Course Number: 1846
Time: 90 Minutes
Number of Quizzes: 1 Quiz

Test your knowledge and skills through this Test Me: Cisco Exam 200-120 CCNA. Prove to yourself, and others, that you are ready for the Cisco Certified Network Associate (200-120) certification exam. You’ll demonstrate your proficiency in the principles, techniques, and tools involved in install, configure, operate, and troubleshoot networks. The instruction period is over; this Test Me provides you with a collection of questions based on the exam domains contained in testing for the actual certification exam. Wrap up your exam preparation with this Test Me pulling questions from our CCNA Routing & Switching course series.

CCNA Security Series

Security and Cisco Routers
Course Number: 919
Time: 105 Minutes
Number of Quizzes: 5 Quizzes

You will find discussions on the common security threats within a network and take a look at network and information security basics. You will review some of the fundamental security principles, go through descriptions of common security threats to Cisco devices, as well as all network devices and networks. You will also spend time studying how to secure the control, data and management planes on Cisco devices, including implementing security on Cisco routers. You will also take a look at Cisco Security Manager. There’s also a section dedicated to IP version 6, along with the different types and formats of associated addresses. Deepen your understanding of these security concepts to prepare for the CCNA Security exam.

Common Security Threats ......................... 919_001
Cisco Security ........................................ 919_002
IPv4 to IPv6 .......................................... 919_003

AAA on Cisco Devices
Course Number: 920
Time: 45 Minutes
Number of Quizzes: 4 Quizzes

Gain an understanding of TACACS and RADIUS. You’ll take a look at the differences between them regarding what they offer as an authentication type, and how to configure each one. You will also take some time to discuss AAA — looking at its definition, and then at some design considerations for implementing it. You’ll go over examples of ways in which you can configure AAA, via the command-line Interface and Cisco Configuration Professional, along with some verification commands. All in all, the topics stem from the exam objective AAA on Cisco Devices, and will aid in preparing you for the CCNA Security exam.

TACACS versus RADIUS ......................... 920_001
AAA ..................................................... 920_002
IOS ACLs
Course Number: 921
Time: 45 Minutes
Number of Quizzes: 4 Quizzes

With this training you are provided with an overview of Access Control Lists, or ACLs. ACLs help to mitigate threats against a network in a variety of ways. ACLs should be tested in a test environment prior to actually applying them. You will take a look at exactly what they are, what they do, and discuss the different types of ACLs and the role they play in security. The training progresses from teaching you the basics to showing you how to effectively work with ACLs in terms of security. Topics covered include types of attacks to ACLs, and details on standard access, extended access, and named access lists. Altogether, these topics will help prepare you to sit for the CCNA Security exam as you focus on the IOS ACLs exam topic.

IOS Access Control Lists ...................... 921_001
Mitigating Threats .................................. 921_002

Secure Network Management
Course Number: 922
Time: 45 Minutes
Number of Quizzes: 3 Quizzes

You will focus on securing the management plane. You will start off by learning to define the management plane, and learning some best practices that can be used to make it more secure, such as strong passwords, AAA, Role Based Access Control, Syslog, and NTP. Then, you will learn to identify and study demonstrations of the different configurations that can be implemented on the management plane. You will also concentrate on strong passwords, SNMP, and Cisco Resilient Configuration. The topics covered in this course are encompassed in the Secure Network Management exam objective, and will aid in preparing you for the CCNA Security certification exam.

Network Management............................ 922_001
Course Review ........................................ 922_002

Common Layer 2 Attacks
Course Number: 923
Time: 90 Minutes
Number of Quizzes: 5 Quizzes

Common Layer 2 Attacks is an exam objective in the CCNA Security certification exam. In preparation for this exam, you are going to cover concepts like configuring VLANs, trunking, securing switches, and optimizing spanning tree. You will begin by taking a look at VLANs, or Virtual Local Area Networks. After taking some time to define VLANs and describe their purpose, you will find discussions on VTP, which is the VLAN Trunking Protocol, and then focus on trunking itself. You will also learn about InterVLAN routing and port security on switches. Learn how to identify security implementations that should be considered with designing a network, such as enable password access, authentication servers like RADIUS and TACACS+, and disabling IOS services that come standard on Cisco devices. Finally, you will learn the definition of spanning tree, and then you will look at ways in which you can implement and optimize it. Gain an in-depth understanding of these topics to determine how to best respond to layer 2 attacks.

VLANs and Trunking............................. 923_001
Securing Switches ................................. 923_002
Spanning Tree..................................... 923_003

Cisco Firewall Technologies
Course Number: 924
Time: 90 Minutes
Number of Quizzes: 5 Quizzes

Cisco Firewall Technologies explains the different firewall technologies and the strengths and weaknesses that surround them. The concept of a stateful firewall is introduced, as well as what it means when it comes to protecting your network. Zone-based firewalls and the Cisco ASA series of firewall appliances and the ways in which these devices can be implemented within your network is discussed. Network Address Translation (NAT), and Port Address Translation (PAT) are introduced and the reasons for which they are both needed are explained in detail.

Firewall Technologies ............................ 924_001
Types of Firewalls ................................. 924_002
NAT and PAT...................................... 924_003

Cisco IPS
Course Number: 925
Time: 45 Minutes
Number of Quizzes: 2 Quizzes

Cisco IPS discusses the differences between a Cisco IPS and Cisco IDS device, and some options that you have when deploying them in your network. The type of traffic analysis and the actions that can be performed by each of these device on malicious traffic that is detected in your network is described. The steps to configure Cisco IPS are demonstrated as well as some best practices to consider when deploying an IPS or IDS device. The topics covered will teach the fundamentals of Cisco IPS, and prepare you for the CCNA Security exam.

IPS Deployment .................................... 925_001
Course Review .................................... 925_002
VPN Technologies
Course Number: 926
Time: 60 Minutes
Number of Quizzes: 4 Quizzes

You will go through discussions on the basics of VPN technologies, and how IPSec works in a VPN tunnel setup. You will also look at the basics of cryptography in order to gain a better understanding of exactly what goes on behind the scenes of a VPN tunnel establishment. Finally, you will walk through different ways of implementing a site-to-site VPN and configured SSL VPN using the graphical device manager from an ASA.

Virtual Private Networks ........................................... 926_001
Site-to-Site VPN .................................................. 926_002

Test Me: Cisco Exam CCNA Security 640-554 IINS
Course Number: 1850
Time: 90 Minutes
Number of Quizzes: 1 Quiz

Test your knowledge and skills through this Test Me: Cisco Exam CCNA Security 640-554 IINS. Prove to yourself, and others, that you are ready for Cisco’s Implementing Cisco IOS Network Security certification exam. You’ll demonstrate your proficiency in the principles, techniques, and tools involved in working with routers, networks, and switches. The instruction period is over; this Test Me provides you with a collection of questions based on the exam domains contained in testing for the actual certification exam. Wrap up your exam preparation with this Test Me, pulling questions from our Cisco IOS Network Security course series.

CCNA Wireless Series
WLAN Fundamentals
Course Number: 1030
Time: 75 Minutes
Number of Quizzes: 4 Quizzes

It’s imperative for any network engineer to be familiar with the fundamental topics of a wireless network, including basic spread spectrum technology, the wireless regulatory bodies, and the impact of different wireless technologies. WLAN Fundamentals covers these topics in depth, and takes a look at some wireless topologies that are common in today’s world. It also introduces and explains some key networking technologies used in wireless implementation. With the knowledge gained through these discussions, you will be ready for the WLAN questions in the CCNA Wireless exam.

Wireless Fundamentals ........................................ 1030_001
Wireless Technologies ........................................... 1030_002
Network engineers need to be familiar with the features of WCS and how to install, upgrade and configure basic administrative parameters. Basic WCS Operation discusses these topics in detail, and demonstrates the configuration of access points and controllers in a WCS environment, how to audit them, and how to properly use heat maps for an environment in a wireless environment. To prepare for the CCNA Wireless exam, it is also important that you have an understanding of WCS. So take your time going through these topics to learn the ins and outs of Cisco WCS.

Wireless Control System......................... 1034_001
WCS Administration................................ 1034_002

Basic WLAN Maintenance and Troubleshooting
Course Number: 1035
Time: 45 Minutes
Number of Quizzes: 3 Quizzes

Basic WLAN maintenance through the WCS and the WLC interface is critical knowledge that all network engineers must have. Basic WLAN Maintenance and Troubleshooting looks at the WCS client troubleshooting tool, along with some other maintenance tools and commands available in WCS. You will concentrate on Cisco WCS logging, administration, and how to troubleshoot a wireless infrastructure. Study these concepts and techniques in preparation for your CCNA Wireless certification exam.

WLAN Administration............................ 1035_001
WLAN Troubleshooting............................ 1035_002
WLAN Control System............................ 1035_003

Test Me: Cisco Exam CCNA Wireless 640-722 IUWNE
Course Number: 1851
Time: 90 Minutes
Number of Quizzes: 1 Quiz

Test your knowledge and skills through this Test Me: Cisco Exam CCNA Wireless 640-722 IUWNE. Prove to yourself, and others, that you are ready for Cisco’s Implementing Cisco Unified Wireless Networking Essentials certification exam. You’ll demonstrate your proficiency in the principles, techniques, and tools involved in networking and working with WLANs. The instruction period is over; this Test Me provides you with a collection of questions based on the exam domains contained in testing for the actual certification exam. Wrap up your exam preparation with this Test Me pulling questions from our Cisco Unified Wireless Networking Essentials course series.

Citrix

Building a Citrix XenApp 6.5 Architecture Series

Citrix Architecture and Installing Citrix XenApp 6.5
Course Number: 1471
Time: 75 Minutes
Number of Quizzes: 1 Quiz

To build a XenApp 6.5 architecture, you need to understand the Citrix architecture. Study XenApp components, XenApp implementation, system requirements, XenApp zones and services, the Web Interface server, protocols, port numbers, data stores, and data collectors as parts of the Citrix architecture. Then find out what it takes to install XenApp 6.5. You will observe demonstrations of the installation process, the license server, how to resume an installation, new applications, shadow configuration, and the advanced server settings. Gain the foundational knowledge and skills you need to begin building a XenApp 6.5 architecture.

Citrix Architecture.............................. 1471_001
Installing XenApp 6.5............................ 1471_002

Course Number: 1472
Time: 165 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 3 Labs

Web access and policies are part of the XenApp 6.5 architecture. On the topic of Web access, you need to know how to plan, implement, configure, and secure web access, which are all lessons covered in this training. For the policies section, you will look at planning policies, which describes policies in Citrix, policy components and tools, Group Policy concepts, farm policies, policy templates, how to use multiple policies, policy filters, and policy guidelines; and creating policies, where you’ll go over creating worker groups, the policy node, settings
Before installing and configuring XenApp 6.5, you need to know some background information about Citrix XenApp 6.5, and you need to have the licensing server installed. In this training, the background information that you’re provided with includes the details on application virtualization, XenApp features, the function of XenApp, and the Citrix architecture. Concerning the licensing server, you will learn about the licensing communication process, details about RDS servers, the process of installing and uninstalling licensing, the hardware requirements, the Server Role Manager, and data store databases. Having covered those details, you can now install XenApp 6.5. There’s a tremendous amount of information contained in these discussions on XenApp 6.5, so take your time in learning all of XenApp’s ins and outs to properly implement it.

Introduction to XenApp ......................... 1473_001
Citrix Architecture .......................... 1473_002
Planning for Licensing and Installing ........ 1473_003
Configuring Licensing .......................... 1473_004
Installing XenApp 6.5 .......................... 1473_005

Using the AppCenter Console, Configuring XenApp and Managing XenApp Administration in Citrix XenApp 6.5
Course Number: 1474
Time: 75 Minutes
Number of Quizzes: 3 Quizzes

Begin familiarizing yourself with XenApp 6.5 as you learn to use the AppCenter Console, configure XenApp, and manage XenApp administration. In the configuring XenApp section, you’ll explore how it compares to other virtualization devices, information about printer management, the improved protocol, Windows Server 2008 R2 settings, Citrix services, running protocols, session settings, and the Services Manager. Then the manage XenApp administration section goes over worker groups, administrator privileges, administrator accounts, administration delegation, configuration logging, administration configuration, creating a user, and adding administrators. Discover all that Citrix XenApp 6.5 has to offer as an application delivery solution and start implementing it in your environment.

Using the AppCenter Console .................. 1474_001
Configuring XenApp .......................... 1474_002
Managing XenApp Administration .......... 1474_003

Publishing Applications with XenApp 6.5 Series

The topics covered in this course include publishing applications and content, direct application installation, and configuring Citrix plug-ins. You’ll find in the publishing application and content section discussions on deployment issues, published applications and resources, how to publish server desktops, application delivery methods, basic publishing tasks, system requirements, direct installation, and the control applet. The Citrix plug-ins section explains what available plug-ins are, the Citrix Receiver, XenDesktop Connections, the purpose of streaming applications, and different installation methods. All of these topics will enhance your skills, and thus strengthen your ability to publish applications with XenApp 6.5.

Publishing Applications and Content .......... 1495_001
Direct Application Installation ................ 1495_002
Configuring Citrix Plug-Ins .................. 1495_003
IT Enterprise Premier


Course Number: 1496
Time: 90 Minutes
Number of Quizzes: 3 Quizzes
Number of Labs: 1 Lab

Part of XenApp 6.5’s functionality is being able to stream applications. In this section, you will learn about the benefits of streaming, caching, streaming requirements and the streaming architecture, about application profiling, how to install the application, how to define users and trusted servers. Then shift your attention to administering performance and load as you study load, the steps to monitoring and optimizing sessions, maintaining connections, how to customize sessions, controlling application instances, and folder redirection. Lastly, you’ll go over, printing policies, printer settings, the Client Printer node, universal printers, drivers, and printing optimization. Use XenApp 6.5 to publish applications in your environment.

Streaming Applications ......................... 1496_001
Administering Load and Performance ....... 1496_002
Configuring Printing............................. 1496_003

Securing and Managing XenApp 6.5 Series

Planning Policies and Administering Performance and Load in Citrix XenApp 6.5

Course Number: 1497
Time: 60 Minutes
Number of Quizzes: 3 Quizzes
Number of Labs: 2 Labs

Part of implementing security on XenApp 6.5 is working with policies and administering performance and load. To help you learn about policies, it is broken up into two section planning policies and creating policies. In the administering performance and load section, the discussions address sessions, monitoring sessions, maintaining connections, optimizing and customizing sessions, controlling application instances, and folder redirection. Delve into these topics to learn how to effectively secure Citrix XenApp 6.5.

Planning Policies...................................... 1497_001
Creating Policies .................................... 1497_002
Administering Performance and Load ....... 1497_003


Course Number: 1498
Time: 105 Minutes
Number of Quizzes: 5 Quizzes
Number of Labs: 2 Labs

The majority of your time in this training will be spent looking at security options for XenApp 6.5. For the discussions on security, you will learn about failover options, high availability, site redirection, configuration, security settings, working with multiple farms, and configuring authentication. Then you’ll shift your attention to managing XenApp as you look at update and patch management, zones and server management, and troubleshooting options concentrating on functionality and performance, and load evaluators. In the update and patch management section, you will get to work with Windows Server, hot fixes; while the zones and server management section covers servers, worker groups, and zones. Having covered these topics, you will be better skilled in securing and managing Citrix XenApp 6.5.

Securing XenApp................................. 1498_001
Update and Patch Management............. 1498_002
Zones and Server Management.............. 1498_003
User Profiles................................. 1498_004
Troubleshooting ......................... 1498_005

Test Me: Citrix Exam A20

Course Number: 1852
Time: 90 Minutes
Number of Quizzes: 1 Quiz

Test your knowledge and skills through this Test Me: Citrix Exam A20. Prove to yourself, and others, that you are ready for Citrix’s XenApp 6.5 Administration certification exam. You’ll demonstrate your proficiency in the principles, techniques, and tools involved in installing, configuring, and administering Citrix XenApp 6.5 desktop solutions. The instruction period is over; this Test Me provides you with a collection of questions based on the exam domains contained in testing for the actual certification exam. Wrap up your exam preparation with this Test Me pulling questions from our XenApp 6.5 Administration course series.
CompTIA

A+ All-In-One 2012 Series

Introduction to A+ Certification Exam
Course Number: 708
Time: 30 Minutes

Spend time familiarizing yourself with details about the two exams required to receive the A+ certification: 220-801 Essentials, which primarily deals with PC hardware, and 220-802 Practical Application, which covers operating systems — primarily, Windows 7. You will be informed about the prerequisites for the exams, the knowledge domains contained in each exam, exam objectives, and ways of preparing for the exam. Receiving the A+ certification validates your ability to implement and support personal computers — both hardware and operating systems.

Introduction 708_001

PC Hardware
Course Number: 709
Time: 345 Minutes
Number of Quizzes: 8 Quizzes
Number of Labs: 5 Labs

You will be provided with a global view of a computer’s required hardware. Some computer components discussed are motherboards, expansion cards, storage devices, and power supplies. In the discussion on motherboards, you will study the components of a motherboard, motherboard sizes, ITX, fan connectors, and front panel connectors. Alongside motherboards, you will look at system memory. Learn how to build a computer, about the various display types, about the different display connectors and peripherals, and optical media which refers to CDs, DVDs, and Blu-Ray discs. Topics covered will help you prepare for A+ certification.

PC Components 709_001
Motherboards 709_002
Motherboard Expansion Slots 709_003
Computer Processors 709_004
Processor Installation and Care 709_005
System Memory 709_006
Expansion Cards 709_007
BIOS Settings 709_008
Basic Storage Devices 709_009
Advanced Storage Devices 709_010
Optical Media 709_011

External Connectors 709_012
Power Supplies 709_013
Building the Machine 709_014
Display Devices 709_015
Connectors 709_016
Peripherals 709_017

Networking Hardware, Design, Cabling, IP
Network Services & Protocols
Course Number: 710
Time: 165 Minutes
Number of Quizzes: 4 Quizzes
Number of Labs: 1 Lab

Look at network design by focusing on network cabling, wireless communications, networking hardware, and connectivity. Significant to network design is having the hardware and cable in place. You will look thoroughly at hubs, switches, routers, access points, cable speeds and lengths, and fiber optics to name a few. You will find details on the specific IP network services and TCP/IP protocols involved in network communication particularly name resolution, client-side DNS, gateways, DHCP, infrastructure protocols, service protocols, and the difference between TCP and UDP. Study these topics to prepare for the A+ 2009 certification exam.

Networking Hardware 710_001
Network Cabling 710_002
Wireless Communications 710_003
Network Design 710_004
TCP/IP Introduction 710_005
IP Network Services 710_006
TCP/IP Protocols 710_007
Internet Connectivity 710_008

Laptop Hardware & Operations, Printer Installation & Maintenance
Course Number: 711
Time: 120 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 4 Labs

Laptop hardware, displays, and operations are the central focus of your training. These topics are included in the A+ 2009 certification. In the laptop hardware section, you will explore laptop expansion slots, its memory, its hardware and hardware layout, and the internal components included. You will also learn how to work with printers, about the different types of printers for instance impact printers and laser printers, about the different printer

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connections used, and how to execute various printer maintenance tasks.

Laptop Hardware.............................. 711_001
Laptop Displays .............................. 711_002
Laptop Operations ......................... 711_003
Understanding Printers ..................... 711_004
Printer Installation .......................... 711_005
Printer Maintenance ....................... 711_006

Procedures and Professional IT Communication
Course Number: 712
Time: 90 Minutes
Number of Quizzes: 3 Quizzes

Focus on safety procedures and environmental controls, as well as how to communicate professionally, clearly, and accurately as an IT professional. Safety procedures covered concerning electrostatic discharge, discarding equipment, personal safety, and electrical safety. In the discussion of environmental controls, you will explore MSDS, climate control, the effect of dust and debris, power management, component handling, and compliance regulations. The last three chapters cover professional communication. Having a solid understanding of these topics will aid in preparing for the A+ 2009 certification exam.

Safety Procedures............................. 712_001
Environmental Controls .................... 712_002
Communicate Professionally ............... 712_003
Communicate Clearly ..................... 712_004
Communicate Accurately ................. 712_005

Mobile Device Hardware, Operating Systems, Connectivity & Security
Course Number: 713
Time: 60 Minutes
Number of Quizzes: 3 Quizzes
Number of Labs: 2 Labs

Concentrate on mobile devices’ hardware, operating systems, connectivity, and security. Details on mobile devices encompasses most of the course walking you through the following topics: different types of mobile devices, connectivity options, mobile device basics, application sources, screen calibration, access security, remote support, and patching. There is also a section on content synchronization where you will study synchronization connections and how to prepare data for synchronization. Each concept is looked at in-depth to understand the tools and practices associated with them. Retaining this information will prepare you for A+ certification.

Mobile Device Hardware ..................... 713_001
Mobile Device Operating Systems .......... 713_002
Mobile Connectivity ....................... 713_003
Mobile Device Security .................... 713_004
Content Synchronization .................. 713_005

Microsoft Operating Systems
Course Number: 714
Time: 165 Minutes
Number of Quizzes: 3 Quizzes
Number of Labs: 13 Labs

The context for this course is operating systems on personal and desktop computers. Be introduced to the different features available with Windows 7, walks you through how to plan an installation of Windows 7, and how to use the Control Panel. Referring to the latter, you will find explanations on installation planning, executing an installation, and an overview of Windows administration tools and the Control Panel. The A+ certification exam encompasses a large number of topics. The ones covered here will help prepare you for the exam.

Microsoft Operating Systems ............. 714_001
Windows 7 Features ......................... 714_002
Installation Planning ...................... 714_003
Performing Installations .................. 714_004
Windows Administration Tools .......... 714_005
Control Panel ............................. 714_006
Control Panel Differences ................. 714_007

Windows Disk & Configuration Management, System Migrations & Command Prompts
Course Number: 715
Time: 165 Minutes
Number of Quizzes: 5 Quizzes
Number of Labs: 5 Labs

Once you have Windows 7 installed, you have the flexibility to configure your settings. Learn how to maintain a Windows 7 system through Windows disk management, process management, and Windows configuration management; implementing System Migrations; and using command prompts in run line utilities. You will also spend time studying system migrations and preventative maintenance like using CHKDSK, DEFrag, and properly implementing backup and restore. Be sure to familiarize yourself with these topics because you can expect to find questions on the A+ exam about configuration options.

Windows Disk Management ................ 715_001
Troubleshooting Theory .............................. 717_008

Windows Configuration Management .......... 715_002
Process Management .................................. 715_003
Run Line Utilities ....................................... 715_004
Network Configuration ................................. 715_005
System Migrations ....................................... 715_006
Windows Command Prompt ......................... 715_007
Preventative Maintenance .............................. 715_008

Client Virtualization, Security Concepts & Network Security
Course Number: 716
Time: 165 Minutes
Number of Quizzes: 5 Quizzes
Number of Labs: 4 Labs

You will study client virtualization, security concepts, and network security, which incorporates multiple concepts. The network security section builds on security concepts to explain how to protect a network. Furthermore, you will learn from that section how to secure a SOHO wireless network, how to work with SSID broadcasting and MAC filtering, the dangers of trusting antennas, about wireless encryption options, and the steps to securing a SOHO wired network. You will also find a discussion on workstation and data security. Prepare for the A+ certification by gaining a deep understanding of these topics.

Client Virtualization ................................. 716_001
Security Concepts ...................................... 716_002
Security Threats ........................................ 716_003
Security Solutions ...................................... 716_004
Security Settings ....................................... 716_005
Workstation and Data Security ....................... 716_006
Network Security ....................................... 716_007

Troubleshooting Storage, Display, Network & Operating System Problems
Course Number: 717
Time: 150 Minutes
Number of Quizzes: 4 Quizzes
Number of Labs: 1 Lab

Explore how to troubleshoot different storage, display, network, and operating system problems. Before diving into those solutions, you will study the basics behind troubleshooting theory discussing the CompTIA troubleshooting process and the documentation process. There’s also attention given to troubleshooting laptops, the system, and printers. By the end of this course, you will understand how to go step by step through solving any number of issues. Topics covered here will help you prepare for the A+ certification exam.

Troubleshooting Theory .............................. 717_001
Troubleshooting System Problems .................. 717_002
Troubleshooting Storage Problems .................. 717_003
Troubleshooting Display Problems .................. 717_004
Troubleshooting Network Problems ................ 717_005
Troubleshooting OS Problems ....................... 717_006
Troubleshooting Additional Devices ............... 717_007
Game Over ............................................. 717_008

Test Me: CompTIA Exam A+ 220-801 & 220-802
Course Number: 1660
Time: 90 Minutes
Number of Quizzes: 1 Quiz

Test your knowledge and skills through this Test Me: CompTIA Exam A+ 220-801 & 220-802. Prove to yourself, and others, that you are ready for CompTIA’s A+ (800 series) certification exam. You’ll demonstrate your proficiency in the principles, techniques, and tools needed for PC operating systems and basic networking. The instruction period is over; this Test Me provides you with a collection of questions based on the exam domains contained in testing for the actual certification exam. Wrap up your exam preparation with this Test Me pulling questions from our 220-801 & 220-802 course series.

Network+ (N10-006) Series
TCP/IP Fundamentals
Course Number: 1720
Time: 120 Minutes
Number of Quizzes: 2 Quizzes

Transmission Control Protocol/Internet Protocol is a nonproprietary industry-standard protocol suite that provides communications on networks that support various operating systems and hardware types. Our course, TCP/IP Fundamentals, is the first course in our studies for CompTIA’s latest installment of the Network Plus certification. In this course the student will be covering some of the basics of the TCP/IP protocol suite. The word “suite” implies that there are multiple protocols, as well as tools, that make up TCP/IP. As a network technician, you will need to be familiar with all of these. This course will cover both IPv4 and IPv6, as well as the concepts of subnetting.

TCP/IP Protocol Suite ................................. 1720_001
Addressing ............................................. 1720_002
IPv6 .................................................. 1720_003
Network Infrastructure Services
Course Number: 1721
Time: 90 Minutes
Number of Quizzes: 2 Quizzes

This course covers network infrastructure services for the CompTIA Network+ certification exam. The topics that will be covered include: infrastructure services that operate inside virtually every network, also known as DHCP and DNS. DHCP handles the automatic assignment of IP addresses and DNS provides name resolution. This course is paired with a variety of demos giving a real world look at some of the concepts that will be discussed.

Network Infrastructures .................. 1721_001
DNS............................................. 1721_002

Understanding Network Devices
Course Number: 1722
Time: 120 Minutes
Number of Quizzes: 3 Quizzes

Network devices are devices that allow interconnectivity between network nodes. Our course, Understanding Network Devices, is the third course in our series dedicated to preparing you for CompTIA’s latest version of the Network+ certification. This course covers topics on the importance of the OSI reference model, and device layer classifications. This course is paired with demos that give a real world look at several of the concepts that will be discussed.

Understanding Network Devices ........... 1722_001
Layer 1 Devices.............................. 1722_002
Layer 2 Devices.............................. 1722_003
Switch Protocols.............................. 1722_004
Layer 3 Devices.............................. 1722_005
Additional Network Devices............. 1722_006

Cables, Connectors, and Standards
Course Number: 1723
Time: 90 Minutes
Number of Quizzes: 2 Quizzes

As a network technician you need to be aware of these various cable types, their characteristics, capabilities, and limitations. You also need to understand the various connectors that are involved. This course is designed to prepare the student for the Network+ certification. This course will take a look at network standards and the organizations that create them, as well as the importance of standardization. We have paired this course with demos that will help give a visual example of the concepts that will be talked about.

Standards........................................... 1723_001
Cabling and Connectors.................... 1723_002

Understanding WAN Connections and Remote Access
Course Number: 1724
Time: 105 Minutes
Number of Quizzes: 2 Quizzes

A wide area network (WAN) is a network that spans larger geographical distances and connects multiple local area networks (LANs) together using high-speed communication lines. In this course, Wide Area Networks and Remote Access, the topics that will be covered include; an overview of the concepts of WAN, available connectivity options, capabilities and characters of the different available options, and last but not least we will cover the concepts of remote access. This course is paired with a variety of demos giving real world examples of the topics that will be discussed. This course is designed to prepare the student for the Network+ certification exam.

Wide Area Networks.......................... 1724_001
Remote Access................................ 1724_002
Virtual Private Networks.................. 1724_003

Monitoring and Maintaining Networks
Course Number: 1725
Time: 90 Minutes
Number of Quizzes: 2 Quizzes

Ongoing monitoring of the network is crucial in order to ensure the continued efficiency of operations. This course is meant to help the student answer the following questions: What are some of the things that we should know? Why should we monitor? What should we be looking for? And, what tools are at our disposal in this area? This course will cover topics on monitoring fundamentals, ongoing maintenance of networks and network devices, examining the various ways to monitor network devices on the logical and physical level, technologies and protocols designed for the purpose of monitoring, monitoring network operating systems, and maintaining of devices and systems over time. This course will be paired with a variety of demos giving real world examples of the concepts that will be discussed. This course is designed to prepare the student for the Network+ certification exam.

Monitoring..................................... 1725_001
Maintaining Networks...................... 1725_002
Installing, Configuring, and Maintaining Wireless LANs
Course Number: 1726
Time: 90 Minutes
Number of Quizzes: 2 Quizzes

A wireless local area network uses technology that uses radio waves or infrared light instead of cables in order to connect computers and other devices. In our course, Installing, Configuring, and Maintaining WLANs, we will be looking at the important components that make up wireless technologies. This course will cover topics on basic components and technologies at work, various standards that exist for wireless networks known as the 802.11 series of standards, planning security for potential threats and vulnerabilities, and ensuring the availability of wireless networks through the proper amount of planning. This course will be paired with demos giving the student a look at real world examples. This course is designed to prepare the student for the Network+ certification exam.

WLANs .............................................. 1726_001
Configuring WLANs ............................ 1726_002

Network Security
Course Number: 1727
Time: 165 Minutes
Number of Quizzes: 2 Quizzes

Network security is important regardless of the size of the organization or the type of business. Part of information technology is information security; it is the duty of IT personnel to ensure that corporate assets such as company data, systems, and services are secure. In our course, Network Security, the students will be covering topics that include planning for network security, identify threats and vulnerabilities, protection techniques and how to implement them, and handling security incidents. This course is paired with several demos that offer more in-depth information on the various topics that will be covered in this course. Network Security, is another installment for the CompTIA Network+ certification.

Network Security Planning ...................... 1727_001
Handling Incidents .............................. 1727_002
Protection Techniques .......................... 1727_003

Networking Concepts and Theory
Course Number: 1728
Time: 120 Minutes
Number of Quizzes: 2 Quizzes

Our course on, Network Concepts and Theory, is designed to help the student pass the CompTIA Network+ certification. This course will give an in-depth look at topics that include network terminology, different type of network styles, network models, and topology. The student will learn about the various network standards with focus on the Open System Interconnection Reference Model. From there this course will cover the concept of change management and its role in network concepts and theory. This course will conclude by covering the various processes and documentation that is used to ensure an organization continues to function in an orderly fashion, and will cover the various security practices that will help you when dealing with network devices and technology. This course will be paired with demos that give a real world example of the many concepts that will be discussed in the course.

Network Concepts ............................... 1728_001
Models and Topologies ....................... 1728_002
Standardization ............................... 1728_003
Process and Procedures ..................... 1728_004

Troubleshooting Networks
Course Number: 1729
Time: 120 Minutes
Number of Quizzes: 2 Quizzes

Troubleshooting is an integral part of the network technician’s daily tasks. In the course, Troubleshooting Networks, the student will examine the various methods and tools that you will use when you encounter network related issues. They will be learning of the methods that are used when identifying and resolving issues, as well as the various tools that you will have at your disposal to counter the different types of issues that arise in today’s environments. Last but not least, the student will be learning of the various issues that they might face as a Network technician. This course will be paired with demos that offer more in-depth information on the various topics that are covered in this course. This course is designed to prepare the student for the CompTIA Network+ exam.

Troubleshooting Methodology ................. 1729_001
Troubleshooting Tools ....................... 1729_002
Potential Problems ......................... 1729_003

LAN Infrastructures
Course Number: 1730
Time: 120 Minutes
Number of Quizzes: 2 Quizzes

In this course we will look at what it takes to build a local area network when it comes to all the physical connections that are required. The topics that will be covered include the basics of physically installing a local area network, connecting the LAN to the wide area network and discuss responsibilities in that area, and the best practices to follow if you find yourself building LANs from scratch. This course will be paired with demos that will show real world
examples of many of the topics that will be discussed in this course. This course is designed to prepare the student for the Network+ certification exam by CompTIA.

Installing a LAN................................. 1730_001
Connecting to a WAN ......................... 1730_002

Advanced Networking Concepts
Course Number: 1731
Time: 120 Minutes
Number of Quizzes: 2 Quizzes

This course will examine a few topics that could be classified as advanced networking concepts. The topics covered in this course are an important part of the Network+ exam and are likely to be present in many of the environments in which you will find yourself working. Today’s networks are different than the networks of the past and include technologies that were not present as little as ten years ago. As the industry changes, network technicians must adapt and this begins by expanding our knowledge to include new technologies. The topics that will be covered in this course include technology of virtualization, basic concepts and structure of SAN, essential elements of cloud-based computing, various types of cloud models, and unified communications.

Virtualization................................. 1731_001
Cloud-Based Computing...................... 1731_002
Unified Communications ................. 1731_003

Test Me: CompTIA
Exam Network+ (N10-006)
Course Number: 2122
Time: 90 Minutes
Number of Quizzes: 1 Quiz

Test your proficiency and comprehension of the content of the CompTIA's N10-006 Exam with the Test Me: Network+ course. You’ll demonstrate your proficiency in the principles, concepts, and tools used in completing the Network+ Certification. Test Me provides you with a collection of questions based on the instructions that you have received throughout the Network+ series. This gives you the opportunity to prove your comprehension and understanding of the various concepts that you have seen throughout this series, as well as the chance to test your knowledge on the various concepts of Network+.

[BP] Network+ (N10-006) Series
Fundamentos do TCP/IP
Número do Curso: 2090
Tempo: 120 Atas
Número de Testes: 2 Teste

O Protocolo de Controle de Transmissão / Protocolo de Internet (TCP / IP) (Transmission Control Protocol / Internet Protocol) é um conjunto de protocolos de domínio público padrão da indústria que fornece comunicação em redes, que suportam vários tipos de Sistemas Operacionais e de Hardware. Nosso curso, Fundamentos do TCP / IP (TCP / IP Fundamentals), é o primeiro curso em nossos estudos para a última parcela da certificação da Rede+ da CompTIA. Neste curso o aluno estará cobrindo alguns dos princípios básicos de suíte de protocolos (conjunto) TCP / IP. A palavra “suíte” implica que existem vários protocolos, bem como ferramentas, que compõem o TCP / IP. Como um técnico de rede, você precisa estar familiarizado com todos estes. Este curso irá abranger tanto IPv4 e IPv6, bem como os conceitos de sub-redes.

Suíte de Protocolos TCP / IP.................. 2090_001
Endereçamento................................... 2090_002

Serviços de Infraestrutura de Rede
Número do Curso: 2091
Tempo: 90 Atas
Número de Testes: 2 Teste

Este curso abrange serviços de infra-estrutura de rede para o exame de certificação CompTIA Network+. Os tópicos que serão abordados incluem: serviços de infra-estrutura que operam dentro de praticamente todas as redes, também conhecido como DHCP e DNS. DHCP manipula a atribuição automática de endereços IP e DNS e fornece resolução de nomes. Este curso conta também com uma variedade de demos, dando um aspecto do mundo real em alguns dos conceitos que serão discutidos.

Infraestrutura de Rede.......................... 2091_001
DNS.................................................... 2091_002

Noções Básicas de Dispositivos de Rede
Número do Curso: 2092
Tempo: 120 Atas
Número de Testes: 3 Teste

Os Dispositivos de rede são dispositivos que permitem a interconectividade entre nós da rede. Nosso curso, NOÇÕES BÁSICAS SOBRE DISPOSITIVOS de REDE, é o terceiro curso na nossa série dedicada a prepará-lo...
para a certificação na mais recente versão do CompTIA Network+. Este curso aborda tópicos sobre a importância do modelo de referência OSI e classificações de camada do dispositivo. Este curso conta também com demos que dão uma aparência de mundo real em vários dos conceitos que serão discutidos.

Noções básicas de Dispositivos de Rede...... 2092_001
Dispositivos da Camada 1 ..................... 2092_002
Dispositivos da Camada 2 ..................... 2092_003
Protocólos de Comutadores ................. 2092_004
Dispositivos de Camada 3 ................... 2092_005
Dispositivos de Rede Adicionais ............ 2092_006

Cabos, conectores, e Normas
Número do Curso: 2093
Tempo: 105 Atas
Número de Testes: 2 Teste

Como técnico de rede você precisa estar ciente de estes vários tipos de cabos, suas características, capacidades e limitações. Você também precisa entender os diversos conectores que estão envolvidos. Este curso destina-se a preparar o aluno para a Certificação de Network+. Este curso verá os padrões de rede e as organizações que os criam, bem como a importância da padronização. Este curso conta também com demos que ajudarão a dar um exemplo visual dos conceitos que vão ser apresentados.

Padrões ............................................. 2093_001
Cabos e Conectores ............................ 2093_002

Redes de Área Ampla e Acesso Remoto
Número do Curso: 2094
Tempo: 105 Atas
Número de Testes: 2 Teste

Uma rede de área local sem fio usa tecnologia que utiliza ondas de rádio ou luz infravermelha, em vez de cabos para conectar computadores e outros dispositivos. Em nosso curso, instalação, configuração e manutenção de WLANs, vão ver os componentes importantes que compõem as tecnologias sem fio. Este curso abordará temas sobre componentes básicos e tecnologias no trabalho, diversos padrões que existem para redes sem fio, conhecidas como a série de padrões 802.11, planejamento de segurança para potenciais ameaças e vulnerabilidades e garantindo a disponibilidade de redes sem fio através da quantidade adequada de planejamento. Neste curso contará também com demonstrações que mostrarão ao estudante exemplos do mundo real. Este curso destina-se a preparar o aluno para o exame de certificação Network+.

Redes de Área Ampla ............................ 2094_001
Acesso remoto .................................... 2094_002
Rede virtual privada ............................ 2094_003

Monitoramento e manutenção de redes
Número do Curso: 2095
Tempo: 105 Atas
Número de Testes: 2 Teste

O monitoramento contínuo da rede é crucial para assegurar a contínua eficácia das operações. Este curso destina-se a ajudar o aluno a responder às seguintes perguntas: Quais são algumas das coisas que devemos saber? Por que devemos monitorar? O que deveríamos estar procurando? E, quais ferramentas estão à nossa disposição nesta área? Este curso irá abranger temas sobre fundamentos de monitoramento, manutenção contínua de redes e dispositivos de rede, examinando as várias formas de monitorar dispositivos de rede no nível físico e lógico, tecnologias e protocolos projetados para fins de monitoramento, sistemas operacionais de rede monitoramento e manutenção de dispositivos e sistemas ao longo do tempo. Este curso está combinado com uma variedade de demos que dão exemplos do mundo real dos tópicos que serão discutidos. Este curso visa preparar o aluno para o exame de certificação Network+.

Monitoramento .................................... 2095_001
Manutenção de Redes .......................... 2095_002

Instalação, Configuração, e Manutenção de WLANs
Número do Curso: 2096
Tempo: 105 Atas
Número de Testes: 2 Teste

Uma rede de área local sem fio usa tecnologia que utiliza ondas de rádio ou luz infravermelha, em vez de cabos para conectar computadores e outros dispositivos. Em nosso curso, instalação, configuração e manutenção de WLANs, vão ver os componentes importantes que compõem as tecnologias sem fio. Este curso abordará temas sobre componentes básicos e tecnologias no trabalho, diversos padrões que existem para redes sem fio, conhecidas como a série de padrões 802.11, planejamento de segurança para potenciais ameaças e vulnerabilidades e garantindo a disponibilidade de redes sem fio através da quantidade adequada de planejamento. Neste curso contará também com demonstrações que mostrarão ao estudante exemplos do mundo real. Este curso destina-se a preparar o aluno para o exame de certificação Network+.

WLANs ............................................ 2096_001
Configurando os WLANs ................. 2096_002
**[ES] Network+ (N10-006) Series**

**Fundamentos de TCP/IP**

Número del Curso: 2102  
Tiempo: 120 Acta  
Número de Cuestionarios: 2 Cuestionarios

El Protocolo de Control de Transmisión/Protocolo de Internet es un conjunto de protocolo de estándar industrial no patentado que provee comunicaciones en redes que soportan varios sistemas operativos y tipos de hardware. Por supuesto, Fundamentos de TCP/IP, es el primer curso en nuestros estudios para la última entrega de la certificación Network Plus de CompTIA. En este curso el alumno va a cubrir algunos de los fundamentos del conjunto de protocolo TCP/IP. La palabra “conjunto” implica que hay múltiples protocolos, así como herramientas, que conforman TCP/IP. Como técnico en redes, usted va a tener que estar familiarizado con todos ellos. Este curso va a cubrir tanto IPv4 como IPv6, así como conceptos de división en subredes.

<table>
<thead>
<tr>
<th>Conjunto de Protocolo TCP/IP</th>
<th>2102_001</th>
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<tbody>
<tr>
<td>Direccionamiento</td>
<td>2102_002</td>
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<tr>
<td>IPv6</td>
<td>2102_003</td>
</tr>
</tbody>
</table>

**Servicios de Infraestructura de Redes**

Número del Curso: 2103  
Tiempo: 90 Acta  
Número de Cuestionarios: 2 Cuestionarios

Este curso cubre los servicios de infraestructura de redes para el examen de certificación de CompTIA Network Plus. Los temas a cubrir incluyen: servicios de infraestructura que operan dentro de virtualmente todas las redes, también conocidos como DHCP y DNS. DHCP se ocupa de la asignación automática de direcciones de IP y DNS provee resolución de nombres. Este curso viene conjuntamente con una variedad de demos que dan una mirada realista a algunos de los conceptos a ser desarrollados.

<table>
<thead>
<tr>
<th>Infraestructuras de Redes</th>
<th>2103_001</th>
</tr>
</thead>
<tbody>
<tr>
<td>DNS</td>
<td>2103_002</td>
</tr>
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</table>

**Estudio de Dispositivos de Red**

Número del Curso: 2104  
Tiempo: 120 Acta  
Número de Cuestionarios: 3 Cuestionarios

Los dispositivos de red son aquellos que permiten interconectividad entre nodos de red. Nuestro curso titulado “Estudio de Dispositivos de Red” es el tercero en nuestra serie dedicada a prepararlo para la versión más reciente de CompTIA en la certificación de Network Plus. Este curso cubre asuntos sobre la importancia del modelo de referencia OSI y clasificaciones de capas de dispositivos. Este curso va de la mano de demos en donde se da una mirada al mundo real de los distintos conceptos que veremos.

<table>
<thead>
<tr>
<th>Estudio de Dispositivos de Red</th>
<th>2104_001</th>
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<tbody>
<tr>
<td>Dispositivos de Capa 1</td>
<td>2104_002</td>
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<tr>
<td>Dispositivos de Capa 2</td>
<td>2104_003</td>
</tr>
<tr>
<td>Protocolos de Switches</td>
<td>2104_004</td>
</tr>
<tr>
<td>Dispositivos de Capa 3</td>
<td>2104_005</td>
</tr>
<tr>
<td>Dispositivos Adicionales de Red</td>
<td>2104_006</td>
</tr>
</tbody>
</table>

**Cables, Conectores y Estándares**

Número del Curso: 2105  
Tiempo: 90 Acta  
Número de Cuestionarios: 2 Cuestionarios

Como técnico de red, usted tiene que conocer estos distintos tipos de cables, sus características, capacidades y limitaciones. También tiene que entender los distintos conectores que están involucrados. Este curso está diseñado para preparar al alumno para el examen de certificación de CompTIA Network Plus. Este curso va a echar una mirada a los estándares de red y las organizaciones que los crean, así como la importancia de la estandarización. Hemos acompañado este curso con demos que ayudarán a dar un ejemplo visual de los conceptos que van a ser mencionados.

<table>
<thead>
<tr>
<th>Estándares</th>
<th>2105_001</th>
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<tbody>
<tr>
<td>Cables y Conectores</td>
<td>2105_002</td>
</tr>
</tbody>
</table>

**Redes de Área Amplia y Acceso Remoto**

Número del Curso: 2106  
Tiempo: 105 Acta  
Número de Cuestionarios: 2 Cuestionarios

Una red de área amplia (WAN) es una red que abarca distancias geográficas más vastas, que conecta múltiples redes de áreas locales (LAN) entre sí usando líneas de comunicación de alta velocidad. En este curso, Redes de Área Amplia y Acceso Remoto, los temas que se van a cubrir incluyen: una descripción de los conceptos de WAN, opciones de conectividad disponibles, capacidades y características de las diferentes opciones disponibles y, en último lugar, aunque no menos importante, vamos a cubrir los conceptos de acceso remoto. Este curso está equiparado con una variedad de demos que dan ejemplos del mundo real de los temas que van a ser discutidos.
Este curso está diseñado para preparar al alumno para el examen de certificación de Network+.

Redes de Área Amplia .......................... 2106_001
Acceso Remoto ................................. 2106_002
Red Privada Virtual .............................. 2106_003

**Monitoreo y Mantenimiento de Redes**

Número del Curso: 2107  
Tiempo: 90 Acta  
Número de Cuestionarios: 2 Cuestionarios  

El monitoreo continuo de red es crucial para garantizar la eficacia continua de las operaciones. El propósito de este curso es ayudar al alumno a contestar las siguientes preguntas: ¿Cuáles son algunas de las cosas que debemos saber? ¿Por qué debemos monitorear? ¿Qué debemos buscar? Y finalmente, ¿qué herramientas están a nuestra disposición en esta área? Este curso va a cubrir temas sobre los fundamentos del monitoreo, mantenimiento continuo de redes y de dispositivos de red, análisis de las diversas maneras de monitorear dispositivos de red en el nivel lógico y físico, tecnologías y protocolos diseñados con el propósito de monitorear, monitoreo de sistemas operativos de red y mantenimiento de dispositivos y sistemas a lo largo del tiempo. Este curso va a estar equipado con una variedad de demos que dan ejemplos del mundo real de los conceptos que van a ser discutidos. Este curso está diseñado para preparar al alumno para el examen de certificación de Network+.

Monitoreo ............................................. 2107_001  
Mantenimiento de Redes .......................... 2107_002

**Instalación, Configuración y Mantenimiento de WLAN**

Número del Curso: 2108  
Tiempo: 90 Acta  
Número de Cuestionarios: 2 Cuestionarios  

Una red de área local inalámbrica utiliza tecnología que usa ondas de radio o de luz infrarroja en vez de cables para conectarse a computadoras y otros dispositivos. En nuestro curso, Instalación, Configuración y Mantenimiento de WLAN, vamos a ver los componentes importantes que comprenden las tecnologías inalámbricas. Este curso va a cubrir temas sobre componentes básicos y las tecnologías en operación, los distintos estándares que existen para redes inalámbricas conocidas como la serie de estándares 802.11, planeamiento de seguridad para potenciales amenazas y vulnerabilidades, y asegurar la disponibilidad de redes inalámbricas con la cantidad adecuada de planeamiento. Este curso va a estar acompañado de demos parciales dándole ejemplos reales a los alumnos.

**Seguridad de Redes**

Número del Curso: 2109  
Tiempo: 165 Acta  
Número de Cuestionarios: 2 Cuestionarios  

La seguridad de red es importante independientemente del tamaño de la organización o del tipo de negocio. Parte de la tecnología de información es la seguridad de información; es la obligación del personal de IT de asegurarse que los activos corporativos, tales como datos, sistemas y servicios de la compañía estén seguros. En nuestro curso Seguridad de Redes los alumnos van a cubrir temas que incluyen planeamiento de seguridad de redes, identificación de amenazas y vulnerabilidades, técnicas de protección y cómo implementarlas y gestión de incidentes de seguridad. Este curso está equipado con varios demos que ofrecen una mirada al mundo real en muchos de los temas a cubrir en este curso. Seguridad de Redes, es otra entrega para la certificación CompTIA Network+.

Planeamiento de Seguridad de Redes ......... 2109_001  
Gestión de Incidentes ............................. 2109_002  
Técnicas de Protección ............................ 2109_003

**Network+ (N10-005) Series**

**Introduction to Network+ Certification Exam**

Course Number: 702  
Time: 30 Minutes  

Prepare for the Network+ (N10-005) exam. In this introductory video training, you are given an overview of the objectives, prerequisites, and models covered in the Network+ (N10-005) exam. Explore how networking has evolved and the benefits of being Network+ certified. There is also a section dedicated to preparing for the exam and looking at the Network+ 2012 domains and subtopics.

Introduction ......................................... 702_001

**OSI & IP Addressing, VLANs & DNS**

Course Number: 703  
Time: 195 Minutes  
Number of Quizzes: 5 Quizzes  
Number of Labs: 3 Labs

Find descriptions on networking technologies and concepts including TCP/IP and encryption devices. You will take
a look at networking models, and the applications and devices that make up the network. Additionally, you will learn about network components and where they function in the OSI model, different types of protocols, and the role of Domain Name System. The protocols covered include switching protocols, routing protocols, and networking protocols. In the discussion on Domain Name System, you come away with a better understanding of Dynamic DNS and DNS servers. These topics are important to learn when preparing for the Network+ (N10-005) exam.

Networking Models ................................. 703_001
Applications and Devices ......................... 703_002
IPv4 Overview and Addressing .................. 703_003
IPv6 Overview and Addressing .................. 703_004
Switching Protocols ............................... 703_005
Routing Protocols .................................. 703_006
Networking Protocols .............................. 703_007
Name Resolution .................................... 703_008

Virtual desktops, Media & Connectors, WAN & 802 Standards

Course Number: 704
Time: 105 Minutes
Number of Quizzes: 3 Quizzes
Number of Labs: 1 Lab

There are a number of topics covered that focus on virtual desktops, media and connectors, as well as the steps to planning a small network. First, it takes a look at network virtualization options, cables, and then moves onto WAN solutions and 802 standards. The last section concentrates on planning a small network, where you will learn about the importance of cable lengths, environmental and equipment limitations, compatibility requirements, and device type requirements. Thoroughly learning these topics will prepare you for the Network+ 2012 (N10-005) exam.

Virtual Desktops ................................. 704_001
Media and Connectors ......................... 704_002
WAN Solutions .................................. 704_003
802 Standards .................................. 704_004
Planning a Small Network ..................... 704_005

Troubleshooting Routers, Switches, Media, Wireless & Software Problems

Course Number: 706
Time: 135 Minutes
Number of Quizzes: 4 Quizzes
Number of Labs: 2 Labs

Are you preparing for the Network+ 2012 (N10-005) exam? Then you need to learn how to troubleshoot routers and switches. Find explanations on how to troubleshoot media, wireless, and software problems. In troubleshooting software problems, there are a number of tools utilized. Some of the ones you will focus on are PING, TRACERT, IPCONFIG, NSLOOKUP, and NETSTAT. The first section acts as introduction explaining the CompTIA troubleshooting process, and the last section walks you through how to use protocol analyzers.

Troubleshooting Methodology ........................ 706_001
Troubleshooting Switches ......................... 706_002
Troubleshooting Routers .......................... 706_003
Troubleshooting Media ............................ 706_004
Troubleshooting Wireless ......................... 706_005
Troubleshooting Software ......................... 706_006
Using Protocol Analyzers ......................... 706_007

Security Threats & Authentication, Network Level

Course Number: 707
Time: 165 Minutes
Number of Quizzes: 4 Quizzes
Number of Labs: 2 Labs

Security is encompassed in one of the Network+ (N10-005) exam domains. Delve into a range of security topics...
including security concepts, threats, authentication, firewalls, wireless security, and network level security. On the topic of firewalls, you will study about network firewalls, packet filtering firewalls, stateful inspection firewalls, personal firewalls, firewall rules, and the role of NAT in a firewall. Additionally, you will learn about security appliances that can be implemented in a network particularly IDS, IPS, honeypots, and honeynets.

Security Concepts
Security Threats
Security Authentication
Installing Firewalls
Network Level Security
Wireless Security
Security Appliances
Game Over

Test Me: CompTIA Exam Network+ N10-005
Course Number: 1662
Time: 90 Minutes
Number of Quizzes: 1 Quiz

Test your knowledge and skills through this Test Me: CompTIA Exam Network+ N10-005. Prove to yourself, and others, that you are ready for CompTIA’s Network+ (N10-005) certification exam. You’ll demonstrate your proficiency in the principles, techniques, and tools needed to be a network administrator. The instruction period is over; this Test Me provides you with a collection of questions based on the exam domains contained in testing for the actual certification exam. Wrap up your exam preparation with this Test Me pulling questions from our N10-005 course series.

Security+ (SY0-401) Series
Security Incidents
Course Number: 1871
Time: 30 Minutes
Number of Quizzes: 3 Quizzes

Handling incidents often needs preparation. There are plans and procedures to be taken, and drills to prepare the team. A successful handling team can prevent loss of money for an organization in case of incident. It is an investment rather than a cost if it is done correctly. In the course Incident Handling, you will learn how to recognize what an incident is and where they potentially come from. You will then learn the steps to handling incidents and implementing those steps into your everyday policies and procedures.

Incident Handling
Incident Procedures

Business Continuity
Course Number: 1872
Time: 30 Minutes
Number of Quizzes: 3 Quizzes

Business continuity plans are important if the organization wishes to continue its normal operations in disasters, whether it is man-made or natural. Business continuity plans study all kinds of threats and estimates the damage resulting from these threats. In the course Business Continuity, you will learn the different categories that the events that threaten your business are classified under. You will also learn the steps in creating a business continuity plan. You will also delve further into the development process for a business continuity plan, and learn all the necessary steps that are involved in initiating the plan as well.

Business Continuity

Network Design and Security Controls
Course Number: 1873
Time: 60 Minutes
Number of Quizzes: 3 Quizzes

Today’s threats and cyber intelligence have made it mandatory for us to use devices for protection. Threats can come from inside our network and the internet. This makes it so that a firewall alone is not sufficient. We need to design a secure network. In Network Design and Security Controls, you will learn the steps and the tools to designing a secure network. You will also learn of the many security devices that you have at your disposal, with an in-depth discussion on firewalls and their uses. Included in this course will be detailed demos on Firewall and proxy-nat, DMZ, and IDS-IPS.

Network Design
Security Devices

System Hacking
Course Number: 1683
Time: 90 Minutes
Number of Quizzes: 4 Quizzes

Ensure that you know everything involved in securing a Windows system against attack. During this course you’ll
get into Windows passwords — how they're created, how they’re stored, and different methods used to crack them. You’ll discover different methods used for guessing passwords and breaking the different security methods used within the Windows operating system. You’ll find discussions on responding to privilege escalation. You’ll also spend some time going through a couple of scenarios demonstrating how to use key defense tools. Overall, the topics explored here will teach you how to increase security on your Windows machines, as well as show you required procedures and tools to prepare for different certification exams from EC-Council, CompTIA, Linux, and CISSP.

Windows Hacking .................. 1683_001
Password Attacks .................. 1683_002
Alternate Data Streams .......... 1683_003
Steganography .................. 1683_004
Rootkits .................. 1683_005
Course Summary .................. 1683_006

Spyware & Keyloggers
Course Number: 1684
Time: 90 Minutes
Number of Quizzes: 3 Quizzes

You will take a good look at spyware, the activities it performs, different types of spyware, and the countermeasures needed in order to prevent hackers from utilizing these types of techniques against your company. You will also spend time studying different types of keyloggers. There are three different types of keyloggers that we see used in today’s environments: hardware, software, and kernel/driver keyloggers. A good pen tester or ethical hacker cannot perform his or her job properly without understanding the countermeasures for all of the hacking techniques used against today’s computer systems. Overall, these topics will help prepare you for certification exams from vendors, such as Linux, CompTIA, and EC-Council.

Spyware Uncovered ........ 1684_001
Keyloggers .................. 1684_002

Viruses and Worms
Course Number: 1686
Time: 90 Minutes
Number of Quizzes: 3 Quizzes

You will discover what viruses and worms are and how they can infect computers and systems. You’ll study their nature, how they function, and their impact. You will also spend time going through discussions on varieties of each, along with some real life examples. Refine your understanding of viruses and worms to better your system. The knowledge you gain here will prepare you to be a more effective network administrator. Furthermore, the topics covered here will help with preparing you for security certification exams offered by EC-Council, CompTIA, and Linux.

Viruses ........................................ 1686_001
Worms ........................................ 1686_002

Denial-of-Service
Course Number: 1689
Time: 90 Minutes
Number of Quizzes: 4 Quizzes

Become familiar with the following concepts: denial-of-service, distributed denial-of-service, and how the denial-of-service and distributed denial-of-service attacks take place. You will also see what botnets are and how they are used to attack your system or network. You will find explanations on the tools that are used to attack, and how you can detect such attacks. You will be introduced to different countermeasures, so that you can plan, prepare, and establish the relevant countermeasures to protect your organization. You will also learn how DoS and DDoS can be used in penetration testing. You will go through discussions on how to protect your organization from the distributed denial-of-service attacks and denial-of-service penetration testing. Altogether, these topics focus on deepening your understanding of security concepts and practices, so that you’re a more efficient network administrator. With the skills you gain here, you’re equipped to pursue a number of security certifications from CompTIA, EC-Council, and CEH.

Denial-of-Service & Distributed Denial-of-Service .......... 1689_001
Digital Attack Map ................ 1689_002
Botnets .................. 1689_003
DoS/DDoS Attack Tools and Detection ...... 1689_004
DoS/DDoS Countermeasures .......... 1689_005
DoS/DDoS in Penetration Testing .......... 1689_006

Vulnerability Assessment
Course Number: 1670
Time: 75 Minutes
Number of Quizzes: 3 Quizzes

Our course Vulnerability Assessment will introduced to the concepts of: Vulnerability Assessment, Vulnerability Assessment Tools, and Patch Management. It will offer demos on several of the vulnerability assessment tools that are available, as well as in-depth discussions on the benefits of these tools. We will discuss the process of
analyzing the scan results that the vulnerability assessment tools provide. Finally, we will discuss patch management and some tools that are available for this process, and at the end of this course you will be able to create a comprehensive VA program, identify key vulnerabilities, and perform mitigation actions before those vulnerabilities can be exploited.

Testing Vulnerabilities ........................................ 1670_001
Results, Reports, and Remediation ...................... 1670_002

Covering Tracks
Course Number: 1688
Time: 75 Minutes
Number of Quizzes: 3 Quizzes

In this course we will be going over various ways that attackers have at their disposal to cover any tracks that may lead to their unwanted eviction or worse yet to an audit trail that would lead directly back to them. In this course we will be discussing, disabling auditing during or after an event, steps to take once it is disabled, and destroying any evidence. We will be going over various ways to avoid detection on Linux machines, and this will include several in-depth demos on various operations for the Linux machines.

Avoiding Detection on Windows Machines . 1688_001
Avoiding Detection on Linux Machines ..... 1688_002
Destroying the Evidence ................................. 1688_003
Log Protection Techniques ............................... 1688_004

Disaster Recovery and Risk Management
Course Number: 1668
Time: 30 Minutes
Number of Quizzes: 3 Quizzes

Since you are a part of IT operations in your enterprise, you could be involved in planning and applying policies related to Risk Management and/or Disaster Recovery. In our course Disaster Recovery and Risk Management, you will receive an introduction to the basics of Risk Management and Disaster Recovery. When you have completed the course, you will be able to identify a risk and the effect that it has on daily operations. You will gain an understanding of security measures and how they are implemented, as well as, the importance and the process of managing risk in your environment. We will partner this with a detailed demo on the process of risk assessment. You will gain an understanding of Disaster Recovery, be able to define what a disaster is, rank a disaster, and create a plan that will define how to recover from a disaster, as well as, successfully recovering your data.

Risk Management................................. 1668_001
Disaster Recovery ............................ 1668_002

Trojans and Backdoors
Course Number: 1685
Time: 90 Minutes
Number of Quizzes: 4 Quizzes

As an ethical hacker, there are times when you need to hide software from the company that you are performing the test against in order to verify that the defensive strategy is able to find your software. Trojans and Backdoors is the course where our software is going to be going undercover. In this course we are going to define malware and take a look at how a payload is delivered. We will overview the various Trojan tools, and tools used to generate Trojan programs, as well as, learning about Netcat. We will spend time going over countermeasures and various anti-Trojan software and hardware, and preventive methods that can be used to prevent attacks. We will also be incorporating several demos on the many tools that we will be discussing in this course.

Defining Malware ........................................ 1685_001
Malware .............................................. 1685_002
Tools of the Trade .................................... 1685_003
Countermeasures ..................................... 1685_004
Course Summary ..................................... 1685_005

Introduction to Ethical Hacking
Course Number: 1667
Time: 90 Minutes
Number of Quizzes: 3 Quizzes

Ethical hacking is testing the resources for a good cause and for the betterment of technology. In our course Introduction to Ethical Hacking, you will be introduced to various concepts on ethical hacking. We will be talking about vulnerabilities, exploits, defense strategy, penetration testing, pentest types and methodology, vulnerability management, incident management, and security policy development, and at the end of this course we hope you will have a basic understanding of the various concepts involved in ethical hacking.

Introduction to Hacking ......................... 1667_001
Security Management ........................... 1667_002
Penetration Testing
Course Number: 1669
Time: 60 Minutes
Number of Quizzes: 3 Quizzes

Pentesting is an intentional attack on a system to discover security weaknesses. These can be left either by the security officer or the security controls. Penetration Testing is our course that covers security, vulnerabilities, different types of tests, and when to test as a pen tester. We have paired this with an in-depth demo on vulnerability assessment using the tool Nexpose. At the end of this course we will have reviewed security and vulnerability assessment, and the differences between automatic and manual testing.

Penetration Testing Introduction .................. 1669_001
Organizational Considerations .................... 1669_002

Port Scanning
Course Number: 1680
Time: 105 Minutes
Number of Quizzes: 3 Quizzes

When a port is scanned on a server, the port returns a response indicating that the port is open and a service is listening. In our course Port Scanning, you will learn how ports can be scanned, how a hacker can break into your network through the ports, and the countermeasures you can take to protect your device or network. Our course will offer in-depth discussions on port scanning methods and techniques, port scanning tools, and port scanning countermeasures. We will partner this with detailed demos on Ping, Ping tester, and Netstat.

Port Scanning ........................................ 1680_001
Advanced Techniques .............................. 1680_002

Sniffers
Course Number: 1687
Time: 90 Minutes
Number of Quizzes: 3 Quizzes

In Sniffers we take a look at Network Sniffing. We will be covering the basics of packet sniffing, ARP cache poisoning, DNS spoofing, SSL sniffing, VoIP phone calls and sniffing remote desktop connections. This will be coupled with demos on Wireshark, ARP poisoning, and XARP.

Network Sniffing .................................... 1687_001
Security Measures ................................. 1687_002

Advanced Exploitation Techniques
Course Number: 1870
Time: 75 Minutes
Number of Quizzes: 3 Quizzes

Exploit is a common term in the computer security community that refers to a piece of software that takes advantage of a bug or glitch. In our course Advanced Exploitation Techniques, you will learn what advanced exploitation techniques are and how you can use them in your penetration testing. You will also learn how to use Metasploit to exploit vulnerabilities. This will be coupled with in-depth demos on using Metasploit, and other Metasploit tools, such as, Meterpreter, Armitage, and Armitage-mimikatz.

Advanced Exploiting Techniques ............. 1870_001
Penetration Testing ............................... 1870_002
Exploits ........................................... 1870_003

Cryptography
Course Number: 1673
Time: 75 Minutes
Number of Quizzes: 3 Quizzes

Traditional cryptography uses a secret key for encrypting and decrypting a message. This is also known as symmetric keys. Public key cryptography, the CA creates private and public keys using the same algorithm, it functions asymmetrically. In the course Cryptography, you will discuss Public Key Infrastructures, Certificate Authorities, and Certificate management. We will combine that with in-depth demos on PKI Installation, Config-complete, CRL, Enroll Certificate, and CA Management. We will discuss the steps to create and manage a public key infrastructure, and the relationship between public key infrastructures and certificate authority, as well as, both traditional cryptography and public key cryptography, the implementation of certificates, and managing certificates.

Certificates ........................................ 1673_001
Using Secure Certificates ....................... 1673_002

Scanning Networks
Course Number: 1679
Time: 60 Minutes
Number of Quizzes: 3 Quizzes

Network scanning is the scanning of public or private networks to find out which systems are running, their IP addresses, and which services they are running. In our course Network Scanning, you will learn techniques for private and public network scanning using various tools. Accompanied with in-depth demos and discussions on how to use Angry IP, Nmap, Hping, and Zmap network...
scanners. Through this, you will learn the steps to network scanning, how to draw a network map, and plan an attack accordingly.

Private and Public Network Scanning........ 1679_001
Using Zmap................................. 1679_002

Hacking Web and App Servers
Course Number: 1690
Time: 75 Minutes
Number of Quizzes: 3 Quizzes

Hacking Web and Application Servers course, is a course that will give us a good idea about vulnerabilities and attacks available for web servers and web applications. This course includes in-depth demos on several of the tools used for hacking web servers and application servers. These tools include Apache2, Neteract, Website Mirroring, W3AF, and WMAP. By the end of this course we will have discussed various ways to collect information from web servers, application server attacks, and finding vulnerabilities in a server.

Web Server Attacks.......................... 1690_001
Web Application Attacks.................... 1690_002

SQL Injections
Course Number: 1691
Time: 60 Minutes
Number of Quizzes: 3 Quizzes

SQL injection is the most used of all attacks. Learn how SQL injections can be initiated, cause damage or loss, prevention against such attacks, and discussing detection tools. This course includes demos demonstrating BSQl tool as well as SQL Injection Username and Password. By the end of this course you will have covered SQL injection methodology, attacks, buffer overflow exploit, testing for SQL injection, countermeasures and detection tools.

SQL Injections............................... 1691_001
Protecting Against SQL Injections......... 1691_002

Session Hijacking
Course Number: 1692
Time: 90 Minutes
Number of Quizzes: 3 Quizzes

Have you heard the words “session hijacking”? Simply put, it is defined as an intruder taking over a genuine session between two computers and using if for sinister purposes. In the course Session Hijacking, you will learn details about session hijacking, well-known techniques employed by aggressors, the steps involved in session hijacking, various types of session hijacking, tools for hijacking sessions, ways you can protect yourselves from session hijacking, and how pentesting can be used to identify vulnerabilities.

Session Hijacking............................ 1692_001
Countermeasures............................ 1962_002

Buffer Overflows
Course Number: 1693
Time: 75 Minutes
Number of Quizzes: 3 Quizzes

Buffer overflow occurs when you try to store more data than what the allocated buffer or storage area can hold. In this course you will be introduced to the concepts of buffer overflows, how they happen, and how attackers take advantage of them. You will also learn how to defend against buffer overflow attacks, and what security measures you can take to protect your data. We will accompany this with several demos that will delve deeper and help you understand some of the specific topics that will be discussed.

Buffer Flow................................. 1693_001
Program and Application Vulnerability..... 1693_002
Defense, Countermeasures, and Security... 1693_003

Hacking Wireless Networks
Course Number: 1695
Time: 60 Minutes
Number of Quizzes: 3 Quizzes

Wireless attacks have become easy; even unskilled people with little computer literacy can accomplish them. This is because of the many automated tools available to perform this hack. In our course Hacking Wireless Networks, we will not be focusing on weaknesses of your wireless networks or how to protect them, instead, we will focus on showing you how to gain access to a wireless network.

Hacking Wireless Networks................ 1695_001
Hacking Windows......................... 1695_002

Social Engineering
Course Number: 1678
Time: 60 Minutes
Number of Quizzes: 3 Quizzes

Social engineering is the art of extorting employees for information. It can be human-based or digital. In our course Social Engineering, you will learn what social engineering is, who’s at risk, and how to protect and educate your employees against social engineering. You will learn the importance of creating a security policy, and how to deal with the threat of human-based attacks from both outside
and inside the company. You will learn what kind of risks computer-based attacks, and social media present. We will couple this with in-depth demos on phishing email, SET-webTemplate, SET-spear phishing, SET-trojan, and SET SMS Spoofing.

Social Engineering ...................... 1678_001
Social Engineering Demos ............. 1678_002

**Authentication Systems**

Course Number: 1674  
Time: 60 Minutes  
Number of Quizzes: 3 Quizzes

Whenever we login to a computer system, we provide information to identify ourselves. We refer to this as authentication. Authentication has been developed to contain more than just username and password because we are looking for added layers of security. In this course we will be covering authentication factors, forms of authentication, and authentication protocols. We will also be going over RADIUS, LDAP, and SSO. We will pair this with several demos depicting practical uses of the many tools that we will discuss in this course.

Introduction ......................... 1674_001
Authentication Protocols .............. 1674_002
RADIUS, LDAP, and SSO ............. 1674_003

**Cryptography Weaknesses**

Course Number: 1675  
Time: 75 Minutes  
Number of Quizzes: 4 Quizzes

Cryptography is the science of writing in secret code and is considered an ancient art. The first documented use of cryptography dates back to circa 1900 B.C. In our course Cryptography Weaknesses, we will discuss weaknesses in cryptography and ways to improve your security. We will also cover the use of symmetric and asymmetric keys and the use of hybrid keys, as well as, the use of hashing algorithms and digital signatures. We will pair this with several demos to show you how each of these works in practical situations.

Encryption ......................... 1675_001
Symmetric Encryption ................. 1675_002
Asymmetric Encryption ................ 1675_003
Hashing Algorithms .................. 1675_004
Digital Signatures ................... 1675_005

**Cross-Site Scripting**

Course Number: 1694  
Time: 60 Minutes  
Number of Quizzes: 3 Quizzes

As a security tester or security analyst, it is important that you are aware of cross-site scripting vulnerabilities and how they may be exploited by attackers. In our course Cross-Site Scripting, you will gain a comprehensive understanding of cross-site scripting, you will learn how to prevent it, and how you can test to identify cross-site scripting vulnerabilities. You will also learn what cross-site scripting is and what the different types of cross-site scripting you may come across. This course will also be paired with several demos that give you a real world view of what we have and will cover in this course.

Cross-Site Scripting .................. 1694_001
Types of Cross-Site Scripting......... 1694_002
Preventing Cross-Site Scripting ..... 1694_003

**Mobile Hacking Basics**

Course Number: 1697  
Time: 90 Minutes  
Number of Quizzes: 3 Quizzes

Mobile hacking can be anything from searching for unlocked Wi-Fi networks, to the hacking of Android OS or IOS systems. In our course Mobile Hacking Part Basics, we will give you a basic introduction of the tools and concepts behind mobile hacking with demos giving you a look at some of these tools in action.

Securing Mobile Basics ............. 1697_001
Mobile Security Considerations .... 1697_002
Hardening Mobile Devices .......... 1697_003

**Physical Security**

Course Number: 1699  
Time: 75 Minutes  
Number of Quizzes: 4 Quizzes

What kind of security measures do you take to protect your facilities, equipment, resources, personnel, and property from damage caused by unauthorized access? In this course, Physical Security, these are questions that we will be answering. You will be learning how to recognize the potential risks of unauthorized access to your business and personnel, and how to counteract these risks by learning the steps to creating a security policy for you and your personnel to implement. We included demos that will help you better understand the concepts that will be discussed in this course.

Physical Security .................... 1699_001
Internal Support Systems .......... 1699_002
Evading Firewalls and Honeypots
Course Number: 1700
Time: 75 Minutes
Number of Quizzes: 3 Quizzes

Evading Firewalls and Honeypots is the course where we will not only discuss what firewalls and honeypots are, but how attackers get around these preventive programs. You will learn about the different types of firewalls and how they may be evaded. You will also learn what honeypots are and how they are set up to divert any would be attackers attention. You will be learning how attackers anticipate honeypots and how penetration testing can help you in dealing with these attackers. We have paired this course with several demos that will cover more in-depth the topics that we will be discussing and help you gain a broader understanding of those topics.

Working with Firewalls ....................... 1700_001
Working with Honeypots ....................... 1700_002

Evading IDS
Course Number: 1701
Time: 75 Minutes
Number of Quizzes: 4 Quizzes

Intrusion Detection System (IDS) is a device or software that monitors network activities and system activities. While monitoring, it looks for suspicious activities and security policy violations. In this course, Evading IDS, we will be discussing the vulnerabilities in an IDS, types of IDS, types of evasion, techniques used to evade IDS, IDS tools, and how to carry out penetration testing so you can put a prevention plan in place. We will combine this with an in-depth demo on how to avoid an IDS.

Introduction to IDS ......................... 1701_001
Evading IDS ................................. 1701_002
Points of Vulnerability in IDS .......... 1701_003
Desynchronization .......................... 1701_004
Intrusion Detection Tools ............... 1701_005
IDS Evading Tools ......................... 1701_006
Countermeasures ......................... 1701_007

Wireless Types and Vulnerabilities
Course Number: 1696
Time: 75 Minutes
Number of Quizzes: 3 Quizzes

Wireless types, such as WLAN, are also known as Wi-Fi networks and they are susceptible to security lapses that wired networks are exempt from. In this course you will learn about different wireless types and their vulnerabilities. You will learn about several different tools that will help you take countermeasures against these vulnerabilities. We will complete this course with demos on different tools that we will be discussing.

Wireless Authentication .................... 1696_001
Authentication Systems .................... 1696_002

Test Me: CompTIA
Exam Security+ (SY0-401)
Course Number: 1891
Time: 90 Minutes
Number of Quizzes: 1 Quiz

Test your knowledge and skills through this Test Me: Security+ (SY0-401) Exam. Prove to yourself, and others, that you are ready for the Security+ (SY0-401) certification exam. You’ll demonstrate your proficiency in the principles, techniques, and tools involved in being an IT security administrator for your company, including monitoring the system and understanding how hackers gain access. The instruction period is over; this Test Me provides you with a collection of questions based on the exam domains contained in testing for the actual certification exam. Wrap up your exam preparation with this Test Me pulling questions from our Security+ course series.

[BP] Security+ (SY0-401) Series
Recuperação de Desastres e Gestão de Riscos
Número do Curso: 1950
Tempo: 60 Atas
Número de Testes: 3 Teste

Desde que você é uma parte das operações de TI na sua empresa, você poderia estar envolvido no planejamento e as políticas aplicáveis relacionadas com a gestão de riscos e/ou recuperação de falhas. Em nosso curso de Recuperação de Desastres e Gestão de Riscos, você receberá uma introdução aos conceitos básicos de Gestão de Riscos e Recuperação de Desastres. Quando tiver concluído o curso, você será capaz de identificar um risco e o efeito que tem sobre as operações diárias. Você vai ganhar uma compreensão das medidas de segurança e como eles são implementados, bem como, a importância e o processo de gerenciamento de riscos em seu ambiente. Seremos parceiros isso com uma demonstração detalhada sobre o processo de avaliação de riscos. Você vai ganhar uma compreensão de Recuperação de Desastres, ser capaz de definir o que é um desastre, classificar um desastre, e criar um plano que irá definir a forma de recuperar de...
um desastre, bem como, se recuperando com sucesso os seus dados.

Gestão de Riscos .............................. 1950_001
Disaster Recovery .............................. 1950_002

Avaliação de Vulnerabilidades
Número do Curso: 1985
Tempo: 90 Atas
Número de Testes: 4 Teste

Nosso curso Avaliação de Vulnerabilidades introduzirá os conceitos de: Avaliação de Vulnerabilidades, Ferramentas de Avaliação de Vulnerabilidades e Gerenciamento de patches. O curso oferecerá demais de diversas ferramentas de avaliação de vulnerabilidades que estão disponíveis, bem como debates aprofundados sobre os benefícios daquelas ferramentas. Nós iremos debater o processo de análise dos resultados verificados que as ferramentas de avaliação de vulnerabilidade proporcionam. Finalmente, iremos debater sobre o Gerenciamento de patches e sobre algumas outras ferramentas que estão disponíveis para este processo. No final deste curso, você poderá criar um programa mais de AV, identificar vulnerabilidades chaves e realizar ações de reparações antes que aquelas vulnerabilidades possam ser exploradas.

Avaliação de Vulnerabilidade............... 1985_001
Resultados, Relatórios, e Reparação......... 1985_002

Hacking de Sistema
Número do Curso: 1965
Tempo: 105 Atas
Número de Testes: 4 Testes

Garantir que você saiba tudo que está relacionado com segurança de um sistema Windows contra ataques. Durante este curso, você vai ver senhas de Windows — como é que foram geradas, como é que são armazenadas, e diferentes métodos usados para achar-as. Você descobrirá os diferentes métodos usados para adivinhar senhas e violar os diferentes métodos de segurança usados dentro do sistema operativo Windows. Você encontrará debates ao respeito de resposta a aumento de privilégios. Também passará algum tempo pesquisando através de um par de cenários, demonstrando como utilizar ferramentas importantes de defesa. Em geral, os tópicos estudados aqui, vão lhe ensinar como aumentar a segurança nos seus equipamentos Windows, e vão lhe mostrar os procedimentos e ferramentas necessários para preparar diversas provas de certificação do EC-Council, de CompTIA, Linux e CISSP.

Hacking do Windows ......................... 1965_001
Ataques de Senhas ............................ 1965_002

Fluxos de Dados Alternativos............... 1965_003
Esteganografia ............................... 1965_004
Rootkits ...................................... 1965_005
Resumo do Curso .............................. 1965_006

Trojans e Backdoors
Número do Curso: 1967
Tempo: 90 Atas
Número de Testes: 4 Teste

Como um hacker ético, tem momentos em que você precisa esconder um software da empresa na qual você está realizando o teste, a fim de verificar se a estratégia de defesa não pode encontrar o seu software. Trojans e backdoors é o curso aonde nosso software vai estar encoberto. Neste curso iremos definir malware e dar uma olhada em como é a entrega da carga. Nós iremos ter uma visão geral nas diversas ferramentas de Trojan e ferramentas utilizadas para gerar programas de Trojan, assim como também aprender acerca de Netcat. Nós iremos passar tempo vendo contramedidas e vários softwares anti-Trojan e hardware, e métodos de prevenção que podem ser usados para prevenir ataques. Nós também estaremos incorporando várias demonstrações ao respeito das muitas ferramentas que iremos debater neste curso.

Definindo Malware ............................ 1967_001
Malware ....................................... 1967_002
Ferramentas de Comércio .................... 1967_003
Contramedidas ............................... 1967_004
Resumo do Curso .............................. 1967_005

Spyware e Keyloggers
Número do Curso: 1966
Tempo: 75 Atas
Número de Testes: 3 Teste

Você vai dar uma boa olhada no spyware, as atividades que realiza, diferentes tipos de spyware, e as contramedidas necessárias, a fim de impedir que os hackers utilizem estes tipos de técnicas contra sua empresa. Você também vai passar um tempo estudando diferentes tipos de keyloggers. Existem três tipos diferentes de keyloggers que vemos usados em ambientes de hoje em dia: hardware, software e keyloggers do driver / kernel. Um bom testador de penetração ou um hacker ético não pode executar o seu trabalho corretamente, sem compreender as contramedidas para todas as técnicas de hacking usadas contra sistemas de computadores de hoje em dia. Geralmente, estes temas ajudarão a se preparar para os exames de certificação de fornecedores, tais como Linux, CompTIA, e EC-Council.

Spyware descoberto ........................... 1966_001
Keyloggers ................................. 1966_002
El Hackeo Ético está poniendo a prueba los recursos de TI para una buena causa y para el mejoramiento de la tecnología. En la Introducción al Hackeo Ético se le presentarán varios conceptos sobre este tema. Estaremos hablando acerca de las vulnerabilidades, explotaciones, estrategias de defensa, pruebas de intrusión, tipos y metodología delas pruebas de intrusión, gestión de vulnerabilidades, gestión de incidentes, y el desarrollo de políticas de seguridad, y al finalizar este curso esperamos que tenga un conocimiento básico de los diferentes conceptos involucrados en el hackeo ético.

Introducción al Hackeo .......................... 1987_001
Gestión de la Seguridad .......................... 1987_002

Pruebas de Intrusión
Número del Curso: 1989
Tiempo: 60 Acta
Número de Cuestionarios: 2 Cuestionarios

Las pruebas de intrusión son un ataque intencional a un sistema para descubrir las debilidades de seguridad. Estas las pueden dejar, ya sea el encargado de la seguridad o los controles de seguridad. Las Pruebas de Intrusión es nuestro curso que trata acerca de la seguridad, vulnerabilidades, los diferentes tipos de pruebas, y cuando realizarlas como un evaluador de intrusión. Hemos preparado para esto una demostación detallada de la evaluación de la vulnerabilidad utilizando la herramienta NeXpose. Al final de este curso habremos revisado la seguridad y la evaluación de las vulnerabilidades, y las diferencias entre la prueba automática y manual.

Introducción a las Pruebas de Intrusión....... 1989_001
Consideraciones Organizacionales.......... 1989_002

Cryptography
Número del Curso: 1991
Tiempo: 75 Acta
Número de Cuestionarios: 2 Cuestionarios

La criptografía tradicional utiliza una clave secreta para cifrar y descifrar un mensaje. Esto también se conoce como una clave simétrica. En la criptografía de clave pública, la CA crea claves públicas y privadas que utilizan el mismo algoritmo, pero funciona de forma asimétrica. En el curso de Criptografía, se hablará acerca de las infraestructuras de clave pública, las autoridades de certificación y la gestión de certificados. Vamos a combinar eso con demostraciones detalladas acerca de la instalación de la PKI, CRL, Inscripción de Certificados, y la Gestión de CA. Vamos a hablar sobre los pasos para crear y gestionar una infraestructura de clave pública, y la relación entre las infraestructuras de clave pública y la autoridad de certificación, así como de la criptografía tradicional y la criptografía de clave pública, la implementación de los certificados y la gestión de los certificados.

Certificados ........................................... 1991_001
Utilizando Certificados Seguros............... 1991_002

Cubriendo Rastros
Número del Curso: 2003
Tiempo: 75 Acta
Número de Cuestionarios: 2 Cuestionarios

Cubriendo Pistas analizará los diversos medios que tienen los atacantes tienen a su disposición para cubrir las pistas que puedan conducir a su expulsión no deseada, o peor aún, a una pista de auditoría que los conduciría directamente a ellos. En este curso vamos a hablar acerca de la desactivación de auditoría durante o después de un evento, los pasos a seguir una vez que se desactiva y destuye cualquier evidencia. Vamos analizar las diversas formas que existen para evitar ser detectados en equipos Linux, y esto incluirá varias demostraciones en profundidad sobre las diversas operaciones para los equipos Linux.

Evitando la Detección en Equipos Windows................................. 2003_001
Evitando la Detección en Equipos Linux..... 2003_002
Destruyendo la Evidencia ......................... 2003_003
Técnicas de Protección de Registros .......... 2003_004

Evaluación de la Vulnerabilidad
Número del Curso: 2009
Tiempo: 75 Acta
Número de Cuestionarios: 2 Cuestionarios

En nuestro curso de Evaluación de la Vulnerabilidad se presentarán los conceptos de: Evaluación de la Vulnerabilidad, Herramientas de Evaluación de la Vulnerabilidad y Gestión de Parches. Se ofrecerán demostraciones de varias de las herramientas de evaluación de la vulnerabilidad que están disponibles, así como un debate en profundidad sobre los beneficios de estas herramientas. Vamos a discutir el proceso de análisis de los resultados del escaneo que proporcionan las herramientas de evaluación de la vulnerabilidad. Por último, vamos a hablar acerca de la gestión de parches y algunas herramientas que están disponibles para este proceso, y al
final de este curso usted podrá crear un programa integral VA, identificar las vulnerabilidades clave y realizar acciones para mitigar estas vulnerabilidades antes de que puedan ser explotadas.

Evaluación de la Vulnerabilidad................. 2009_001
Resultados, Informes y Reparación............. 2009_002

Diseño de la Red y Controles de Seguridad
Número del Curso: 2018
Tiempo: 75 Acta
Número de Cuestionarios: 2 Cuestionarios

Las amenazas de hoy y la inteligencia cibernética han hecho que sea obligatorio para nosotros utilizar dispositivos de protección. Las amenazas pueden provenir del interior de nuestra red y de Internet. Esto implica que un firewall por sí solo no sea suficiente. Tenemos que diseñar una red segura. En el Diseño de Red y Controles de Seguridad, usted conocerá los pasos y las herramientas para el diseño de una red segura. También conocerá los diversos dispositivos de seguridad que tiene a su disposición, hablaremos en detalla de los firewalls y sus usos. También se darán demostraciones detalladas de un Firewall y Proxy, NAT, DMZ, e IDS-IPS.

Diseño de la Red ...................................... 2018_001
Dispositivos de Seguridad....................... 2018_002

Server+ (SK0-003) Series
Server Types, Basic Administration, Bus Architectures, External Server Storage, RAID, Processors, & Memory in Server+
Course Number: 989
Time: 180 Minutes
Number of Quizzes: 2 Quizzes

You will be introduced to the types and infrastructure of servers by looking at the hardware involved in Dell servers, internal and external server storage, processor and memory requirements, and the process of properly starting up and shutting down servers. Walk through the process of implementing basic server administration and RAID configurations with particular attention given to patch management, complex RAID arrays, and server monitoring techniques. Understanding these topics will help prepare students to pass CompTIA Server+ 2009 exam, SK0-003.

Server Types......................................... 989_001
Basic Server Administration .................... 989_002
Bus Architectures .................................. 989_003
Internal Server Storage ......................... 989_004
External Server Storage ......................... 989_005
RAID Configurations ......................... 989_006
Processors and Memory ......................... 989_007

High Availability, Installing and Configuring Servers, Peripherals, NOS, Protocols, & Services in Server+
Course Number: 990
Time: 195 Minutes
Number of Quizzes: 2 Quizzes

The two purposes of this video training is to take an in-depth look at server installation and server management. There are descriptions on the various ways to increase high availability on the server through clustering, fault tolerance, replication, and other functions; how to install and configure the server including the steps to configuring RAID on it; and the role of Network Operating Systems (NOS) by looking at its relationship to Ethernet networking and TCP/IP. Concerning server management, you will focus on how to manage peripherals within the constraints of UPS, KVM, and Remote Management; and management protocols that offer services that include SNMP, TCP, IPMI, and WBEM. This training course covers concepts that will prepare you to pass CompTIA Server+ 2009 exam, SK0-003.

High Availability Options......................... 990_001
Installing Servers................................. 990_002
Configuring Servers............................. 990_003
Configuring RAID................................. 990_004
Managing Peripherals......................... 990_005
Network Operating Systems.................. 990_006
Management Protocols and Services......... 990_007

Upgrades, Baselines, Optimization, Physical Security, Backup, Restoration, & Disaster Recovery in Server+
Course Number: 991
Time: 135 Minutes
Number of Quizzes: 2 Quizzes

In this video training, students will learn about monitoring server performance based on performance baselines and securing the server. You will follow discussions on server security in terms of physical security, server backups, and how to restore a server. A few features highlighted
in this course are Firmware, performance counters, optimization of server services, and disaster recovery plan and disks. Additionally, there are also descriptions on how to conduct upgrades to the memory, processor, and drives. This LearnSmart course encompasses concepts that will prepare you to pass CompTIA Server+ 2009 exam, SK0-003.

Performing Upgrades .............................. 991_001
Performance Baselines ............................ 991_002
Optimizing Server Performance ................. 991_003
Implementing Physical Security .................. 991_004
Backup and Restoration ........................... 991_005
Disaster Recovery .................................. 991_006

Linux, NOS, Hardware Compatibility, Virtualization, Documentation, & Troubleshooting in Server+

Course Number: 992
Time: 180 Minutes
Number of Quizzes: 2 Quizzes

You will find presentations on the relationship between security, hardware, and virtualization. These three elements are interdependent. Explore the fundamentals of Linux servers by focusing on how to create users, execute Linux network commands, use administrator and performance tools, and configure user settings, along with instructions on troubleshooting within this system to address server, hardware, and software problems. This training course will help prepare you to pass CompTIA Server+ 2009 exam, SK0-003.

Linux Server Fundamentals ..................... 992_001
NOS Security Features ............................ 992_002
Planning the Server Room ....................... 992_003
Hardware Compatibility Issues .................. 992_004
Server Virtualization .............................. 992_005
Server Documentation ............................. 992_006
Troubleshooting Server Problems ............... 992_007
Common Hardware and Software Problems .... 992_008

MMC, Command Prompt, System Settings, Server Manager, Event Viewer, & General System Maintenance in Server+

Course Number: 993
Time: 135 Minutes
Number of Quizzes: 3 Quizzes

In Linux server, there are various, tools, roles, and features that exist by default, or can be added through configuration.

Focus on the MMC, Command Prompt, MSCONFIG, MSINFO, Server Manager, Event Viewer, and Disk Management. Another portion of the course generalizes system maintenance by concentrating on managing permissions, quota management, shadow copies, and system restore. You will learn details concerning topics and concepts that will help prepare you to pass CompTIA Server+ 2009 exam, SK0-003.

Using the MMC ................................. 993_001
Working with the Command Prompt .......... 993_002
Configuring System Settings ................... 993_003
Using Server Manager ......................... 993_004
Using Event Viewer .............................. 993_005
General System Maintenance ................... 993_006

Test Me: CompTIA Exam Server+ SK0-003

Course Number: 1663
Time: 90 Minutes
Number of Quizzes: 1 Quiz

Test your knowledge and skills through this Test Me: CompTIA Exam Server+ SK0-003. Prove to yourself, and others, that you are ready for CompTIA's Server+ (SK0-003) certification exam. You’ll demonstrate your proficiency in the principles, techniques, and tools needed to build, maintain, troubleshoot and support server hardware and software technologies. The instruction period is over; this Test Me provides you with a collection of questions based on the exam domains contained in testing for the actual certification exam. Wrap up your exam preparation with this Test Me pulling questions from our Server+ (SK0-003) course series.

Programming

Python Series

Introduction to Python

Course Number: 1732
Time: 90 Minutes
Number of Quizzes: 2 Quizzes

Python is a high-level programming language. You can deliver code faster and integrate systems more effectively than most other languages. In this course you will be introduced to Python and what it can do for you. You will learn how you can make the best use of Python to meet your programming needs. We will discuss data types, data structures, and language constructs, such as decision making statements and repeat constructs. You will also receive an overview of concepts on using strings, tuples, sets, iterations and loopings, objects, generators, and dictionaries. This course is paired with demos on
Python, assigning values to variables, string variables, and conditional statements.

Overview of Python ............................. 1732_001
Functions of Python ............................. 1732_002

Development, Setup and Deployment (Unix, Windows)
Course Number: 1733
Time: 75 Minutes
Number of Quizzes: 2 Quizzes

Python is a simple language to learn and you can use it for various applications. It is interpreted not compiled. It is high-level, interactive, and easy to read as indentation makes it so. In our course, Development, Setup, and Deployment, the students will be learning how to install Python, configure and customize Python, and how to terminate a program in Python. They will also learn how to launch and execute their own apps in Python. This course includes demos on installing Python, Python variables, and Python plugins.

Installing Python ............................... 1733_001
Configuring and Customizing Python ........ 1733_002
Program Termination ........................... 1733_003

Data Types, Data Structures
Course Number: 1734
Time: 90 Minutes
Number of Quizzes: 2 Quizzes

Python Programs are a combination of modules, statements, expressions, and objects. In our course, Data Types and Data Structures in Python, we will be explaining the different data types and structures that are used in Python. We will be going into the concepts of program structure, built-in-types, identifiers, reserved words, data type conversions, files, operators, memory management, and data structures, as well as explaining about syntactic and lexical conventions of Python. This course is paired with demos on functions, strings, lists, tuples, dictionaries, and file operations.

Data Types .......................................... 1734_001
Data Structures .................................... 1734_002

Control Flow, Functions, Classes, and Object-Oriented Programming
Course Number: 1735
Time: 90 Minutes
Number of Quizzes: 2 Quizzes

Python programs can be decomposed into modules, statements, expressions, and objects. In our course, Control Flow, Functions, Classes, and Object-Oriented Programming, we will delve deeper into the concepts of conditionals, functions, decorators, coroutines, recursion, and object-oriented programming. This chapter includes demos on conditional Statements in Python, Repeat Statements, Functions, Lambda Functions and Argument Passing, Classes, Class Inheritance and Method Overriding, and Operator Overloading, Data Hiding.

Control Flow ...................................... 1735_001
Functions .......................................... 1735_002
Classes ............................................. 1735_003

Module, Packages and Importing Modules
Course Number: 1736
Time: 60 Minutes
Number of Quizzes: 2 Quizzes

As your program grows in size, you will want to modularize them. Python allows you to keep blocks of code in a file and use them as a module. Packages allow a collection of modules to be grouped under a common package name. In our course, Modules, Packages, and Importing Modules, the student will be learning about modules and packages, and how you import them in their programs. They will learn how to define a module, access the module dictionary, import modules, and how to locate and execute modules. The student will learn about functions and how they can be used as modules, as well as how to install third-party modules and how to distribute modules or source code. The student will then learn how to use packages and how to distribute and install them. This course is accompanied with demos on Import Statements, Importing Modules Through Command Prompt, and Using Packages.

Modules ............................................. 1736_001
Packages .......................................... 1736_002

IO Handling
Course Number: 1737
Time: 75 Minutes
Number of Quizzes: 2 Quizzes

Programs normally involve taking input from one source and sending the processed input to a destination. Input can come from the keyboard, a file, a table, or any other input data source. In the course, Input/Output Handling in Python, you will be introduced to concepts on standard input, output, and error. We will touch on, about handling files, Unicode I/O, and we will introduce you to the concept of serialization and the pickle module. This course is paired with demos on Table of Squares Cubes,
Output Formatting, Generator Yield Output, and Files that Read.

Input/Output ........................................... 1737_001
File Handling in Python ......................... 1737_002
Object Persistence .................................... 1737_003

Errors and Exceptions
Course Number: 1738
Time: 60 Minutes
Number of Quizzes: 2 Quizzes

Exceptions can point out and break the normal control flow of a program. Whenever an exception is raised, a message is left by Python. In our course, Errors and Exceptions, the student will be learning about how exception handling is carried out in Python. They will learn about built-in exceptions, built-in warnings, and user-defined exceptions. This course includes demos on on exceptions, handling exceptions, user-defined exceptions, try/finally, and with statement.

Exceptions ........................................... 1738_001
User-Defined Exceptions......................... 1738_002

Testing, Debugging, Profiling, and Tuning
Course Number: 1739
Time: 75 Minutes
Number of Quizzes: 2 Quizzes

What do you look for when you profile a program? You look for coverage information and performance statistics. This course will explain how Python helps you to test, debug, profile, and tune programs using in-built utilities. The student will take an in-depth look at doctest module and unittest module and its various tools. They will learn how to different strategies and tools that can be used to profile and tune programs. You will view various demos showing some of the tools and techniques that we covered in a real world application.

Testing and Debugging Python Programs .... 1739_001
Profiling and Tuning Python Programs ....... 1739_002

Standard Library, Built-In Functions, String and Text Handling
Course Number: 1740
Time: 75 Minutes
Number of Quizzes: 2 Quizzes

Python comes with a wide variety of general purpose routines that you can use. they are classified as standard library modules, built-in function, string and text handling.

In our course, Standard Library, Built-In Functions, and String and Text Handling, we will give you an in-depth look at each of these, covering how they are used and the assets that they have. This course is paired with demos offering a real world look at some of the topics that we will cover in this course.

Standard Library in Python ...................... 1740_001
Built-In Functions ................................. 1740_002
String and Text Handling ....................... 1740_003

Python Runtime Services and Language Services
Course Number: 1741
Time: 90 Minutes
Number of Quizzes: 2 Quizzes

Runtime services are the services associated with the interpreter and its interaction with that environment. In our course, Runtime Services and Language Services, we will be introducing the student to the functions, modules, and operations involved in runtime services and language services. The student will be learning about built-ins, functions and types, as well as viewing a variety of demos giving real world examples of the various topics that will be covered in this course.

Python Runtime Services ....................... 1741_001
Built-ins .............................................. 1741_002
Functions and Types ............................. 1741_003
Language Services in Python ................. 1741_004

Database Access
Course Number: 1742
Time: 75 Minutes
Number of Quizzes: 2 Quizzes

Python is a cross-platform, object-oriented programming language that supports writing database client applications. In our course, Database Access, we will cover programming interfaces in Python. This course covers database access, connection to a database, operations on tables, and dictionaries. This will be paired with a section on operation table demos.

Database Access .................................... 1742_001
Connection to a Database ....................... 1742_002
Operation Table Demos ......................... 1742_003
Dictionaries ........................................ 1742_004
File and Directory Handling
Course Number: 1743
Time: 75 Minutes
Number of Quizzes: 3 Quizzes

It is essential for someone working on projects to know how to work on files and directories, and you will also need to know the properties of the files. In our course, File and Directory Handling, we will explain about modules that are used for processing various kinds of operations in files and directories. We will also be covering how to read the properties of files, manipulate paths in a portable way, and creating temporary files. In this course is paired with several demos giving a real world into some of the topics that we will be discussing in this course.

File Handling........................................ 1743_001
Working within Files............................ 1743_002
Temporary Files ................................. 1743_003
Compression...................................... 1743_004
Paths ............................................... 1743_005
Archiving......................................... 1743_006

Threads and Concurrency
Course Number: 1744
Time: 75 Minutes
Number of Quizzes: 3 Quizzes

A program is a series of executable statements. Each statement is converted into low-level executable instructions. A process executes these instructions sequentially in a single control flow. This is known as the main thread of the process. In our course, Threads and Concurrency, the student will be introduced to library modules that enable threads and concurrency in Python. They will be introduced to a lot of concepts related to threads and concurrency, and will view a number of demos showcasing how some of the modules and methods work. The student will also be learning how they will be able to program to implement these concepts.

Threads and Concurrency in Python........... 1744_001
Multiprocessing................................. 1744_002
Threading ....................................... 1744_003

OS Services
Course Number: 1745
Time: 60 Minutes
Number of Quizzes: 3 Quizzes

OS services provide interfaces to operating system features that are available on almost all operating systems. This course covers various operating system services. The student will be given an overview of some of the operating system services, and will be viewing some demos of these services.

Operating System Services .................... 1745_001
Process Management............................ 1745_002
Parsing............................................. 1745_003
I/O, Event, Error, Security.................... 1745_004
Event Logging.................................. 1745_005

Network Programming
Course Number: 1746
Time: 60 Minutes
Number of Quizzes: 3 Quizzes

Networking is one of the many major uses of Python. Python has a rich standard library. It has modules that provide higher-level access to specific application-level network protocols. In our course, Networking Programming, the student will be covering how Python offers modules for different processes to communicate. The main focus will primarily be how communication between computers has been made possible. This course will also cover how Python enables networking programming.

Network Programming in Python............... 1746_001
Socket Programming............................ 1746_002
Secure Socket Layer............................ 1746_003
Select and Selectors Modules................. 1746_004

Internet Protocols and Data Handling
Course Number: 1747
Time: 120 Minutes
Number of Quizzes: 3 Quizzes

How do you get onto the Internet and what do you do there? You could be searching for information, socializing, working, or buying or selling. In our course, Internet Protocols and Data Handling, the student will be learning about Internet protocols and how they are used to communicate across a set of interconnected networks and computers. They will learn about web browsers, Internet services, the socket server, and data handling. This course is paired with several demos offering an in-depth look into some of the subjects that will be covered.

Internet Protocols and
Data Handling in Python........................ 1747_001
Web Browser.................................... 1747_002
Internet Services............................... 1747_003
Socket Server................................... 1747_004
Data Handling.................................. 1747_005
Web Programming
Course Number: 1748
Time: 75 Minutes
Number of Quizzes: 3 Quizzes

Python is a versatile programming language. It is comparable to any other powerful high-level language. Python has rich and strong features to enable web programming, and is one of the best choices for it. This course covers methods, Internet protocols, and the technology used to combine Python with a web server to create dynamic content. It will take a peek into CGI scripts, Web Server Gateway Interface, URL handling modules, IMAP4 protocol client, SMTP protocol client, Internet Data Handling, and Encoding. This course will include demos that give a look at many of the concepts discussed in action.

Web Programming in Python......................... 1748_001
Common Gateway Interface............................. 1748_002
WSGIRef Package........................................ 1748_003
Internet Data Handling and Encoding............. 1748_004

Markup Processing
Course Number: 1749
Time: 60 Minutes
Number of Quizzes: 3 Quizzes

A markup language a way to annotate a document to be syntactically distinguishable from the text. Python has markup processing tools to structure websites based on the requirement. This course covers Python modules such as HTML, XML, DOM and SAX, and Expat. These are used to structure data markup in scripting. This course is paired with demos giving a real world example of the topics that will be covered.

HTML ...................................................... 1749_001
Extensible Markup Language (XML)............ 1749_002
The Document Object Model (DOM).......... 1749_003
Simple API for XML (SAX)......................... 1749_004

Program Frameworks
Course Number: 1750
Time: 60 Minutes
Number of Quizzes: 2 Quizzes

A framework is a layered structure that tells us what kind of programs should be built and how they would interrelate. Programming frameworks include actual programs. They also specify programming interfaces and offer programming tools. This course offers the students a look at web frameworks, GUI frameworks, and program frameworks that support Python. This course is also paired with several demos giving a real world example of the concepts in action.

Python Frameworks................................. 1750_001
Framework Functionality......................... 1750_002
GUI Frameworks..................................... 1750_003
Program Frameworks............................. 1750_004
Templating............................................. 1750_005

Performance Tuning
Course Number: 1751
Time: 75 Minutes
Number of Quizzes: 2 Quizzes

Python is known for its ease of writing and its flexibility. You have to make your Python scripts be more efficient without sacrificing the flexibility or maintainability of code. This course gives the student a look at performance tuning for Python. It will cover how python uses built-ins to assist in profiling, tuning, and optimizing scripts. Paired with this course are demos showing concepts that have been discussed in use.

Performance Tuning................................. 1751_001
Profiling Programs................................. 1751_002
Program Optimization............................ 1751_003
Tuning Tools........................................... 1751_004

Extending and Embedding
Course Number: 1752
Time: 75 Minutes
Number of Quizzes: 2 Quizzes

Python is powerful and flexible. It is interpreted, has a huge number of built-in functions, and modules that carry out many of the programming needs, but this does not mean that you have everything you need, you’ll still have to write code to extend the features of Python. In our course, Extending and Embedding, we will be covering how to extend Python using other languages such as C, C++ and how to embed Python in C/C++.

Extending and Embedding......................... 1752_001
Extending............................................. 1752_002
Embedding.......................................... 1752_003
Advanced Extending and Embedding......... 1752_004

Test Me: Python
Course Number: 2020
Time: 120 Minutes
Number of Quizzes: 1 Quiz

Test your proficiency and comprehension of the Python programming language with the Test Me: Python course.
You’ll demonstrate your proficiency in the principles, concepts, code, and tools used in programming with Python. Test Me provides you with a collection of questions based on the instructions that you have received throughout the Python programming series. This gives you the opportunity to prove your comprehension and understanding of the various concepts that you have seen throughout this series, as well as the chance to test your knowledge on the various codes and tools used in Python programming.

Windows 8

Introduction to Windows 8
Course Number: 1715
Time: 90 Minutes
Number of Quizzes: 3 Quizzes

You will learn about Windows 8 features and tricks that you haven’t seen, as well as some features that are good to know to get started in Windows 8. Explore how user friendly the Windows 8 operating system is as you become accustomed to the interface and how things are designed to work. Once you learn the design, you will discover that there are other ways to interact with your devices and the programs on them. You’ll also spend time studying the difference between Windows 8 and other operating systems. One of the topics highlighted is the power of touch. To really enjoy and take advantage of the design and format of Windows 8, you have to know what it offers. Overall, you’ll spend time learning how Windows 8 is a step forward in the progression of technology, and the benefits it offers you in your day-to-day tasks.

Windows Server 2012

Installing and Configuring Windows Server 2012 (70-410) Series

Introduction to Windows 8

Windows Now vs. Windows Then

The Power of Touch

Installing and Configuring Windows Server 2012
Course Number: 850
Time: 195 Minutes
Number of Quizzes: 5 Quizzes
Number of Labs: 4 Labs

This course supplies you with the necessary information and skills needed to successfully install and configure Windows Server 2012 servers, perform basic administration tasks, and manage data storage systems. At the start, you will be introduced to the server landscape. From there, you will discover how to select the appropriate Windows Server 2012 edition for your environment and how to install the operating system. You will also explore how to remotely manage servers using Server Manager or PowerShell. Highlights from this course include looking at Windows Server configurations before and after installation, the importance of storage management, and how to implement storage spaces.

Installing Windows Server 2012

Windows Server Administration

Storage Management

Configuring Server Roles and Features
Course Number: 859
Time: 180 Minutes
Number of Quizzes: 5 Quizzes
Number of Labs: 4 Labs

This course primarily focuses on configuring access to files and folders in Windows Server 2012, utilizing the Print and Document Services role, and managing remote access using MMC. Specifically for file access, you’ll learn how to make data available over the network. You’ll explore the use of shared folders, data accessibility over a network, and the use of NTFS and shared folder permissions to ensure only authorized users can access the data. This course also covers the remote management capabilities of Windows Server 2012, the important features in Server Manager, the enhancements in Event Viewer for local and remote event management, and the remote management of services and Server Core.

Configuring Access to Files and Folders

LearnSmart - www.learnsmartsystems.com
1-800-418-6789
Configuring Print and Document Services..... 859_002
Configuring Remote Management of Servers................................. 859_003

Configuring Hyper-V
Course Number: 882
Time: 120 Minutes
Number of Quizzes: 5 Quizzes
Number of Labs: 4 Labs

In LearnSmart’s Configuring Hyper-V video training, students will learn the skills required to configure and manage the Hyper-V role with Windows Server 2012. Students will gain a better understanding of what it takes to deploy virtual machines along with the components, technologies, and server configurations associated with virtualization.

Virtualization Using Hyper-V ............... 882_001
Virtualized Storage and Disk Management... 882_002
Managing Virtual Networks ..................... 882_003

Deploy and Configure Core Network Services
Course Number: 894
Time: 195 Minutes
Number of Quizzes: 5 Quizzes
Number of Labs: 4 Labs

In LearnSmart’s Deploy and Configure Core Network Services video training, students will learn the skills to deploy and configure core network services. Students will gain a better understanding about the difference between IPv4 and IPv6. This course trains students in how to install DHCP and DNS.

Configuring IP Addressing ...................... 894_001
Installing and Configuring DHCP .................. 894_002
Deploying and Configuring DNS ................ 894_003

Install and Administer Active Directory
Course Number: 893
Time: 225 Minutes
Number of Quizzes: 5 Quizzes
Number of Labs: 4 Labs

In LearnSmart’s Install and Administer Active Directory video training, students will gain the knowledge and skills necessary to begin implementing Active Directory in various environments. Students will also gain a better understanding of the domain controller’s role in Active Directory, and how to install it.

Installing Domain Controllers .......... 893_001
Creating and Managing Active Directory Accounts ....................... 893_002
Creating and Managing Groups and Organizational Units .............. 893_003

Create and Manage Group Policy
Course Number: 946
Time: 285 Minutes
Number of Quizzes: 6 Quizzes
Number of Labs: 5 Labs

In LearnSmart’s Create and Manage Group Policy video training, students will look at the different abilities of Group Policy in an Active Directory environment. Group Policy allows administrators to implement specific configurations for users and computers. It is an infrastructure that offers a lot of powerful capabilities, so it’s important to thoroughly understand its functionality and application. By the end of this course, students will gain a better understanding of what Group Policy is and how it operates.

Introduction to Group Policy ................. 946_001
Managing Security with Group Policy .......... 946_002
Controlling Applications with Group Policy .................. 946_003
Configuring the Windows Firewall .......... 946_004

Show Me: Installing and Configuring Windows Server 2012
Course Number: 1791
Time: 90 Minutes

This course is a collection of demonstrations providing you with visual instruction. The focus of Show Me courses is to walk you step by step through how to use essential tools and key software. As you view these processes and procedures, you will see how to effectively apply industry techniques. Show Me training corresponds directly to a video course, containing topical training and supplemental materials that will deepen your understanding of the subjects portrayed here. To search for the corresponding course, browse by this course’s name and remove “Show Me.” Now, continue on and explore the tools and techniques that will help you excel in your day-to-day tasks.

Installing Windows Server 2012 .............. 1791_001
Windows Server Administration .............. 1791_002
Storage Management ......................... 1791_003

Show Me: Configuring Server Roles and Features
Course Number: 1792
Time: 90 Minutes

This course is a collection of demonstrations providing you with visual instruction. The focus of Show Me courses is to walk you step by step through how to use essential tools and key software. As you view these processes and procedures, you will see how to effectively apply industry techniques.
tools and key software. As you view these processes and procedures, you will see how to effectively apply industry techniques. Show Me training corresponds directly to a video course, containing topical training and supplemental materials that will deepen your understanding of the subjects portrayed here. To search for the corresponding course, browse by this course’s name and remove “Show Me.” Now, continue on and explore the tools and techniques that will help you excel in your day-to-day tasks.

Configuring Access to Files and Folders..... 1792_001
Configuring Print and Document Services... 1792_002
Storage Management............................ 1792_003

Show Me: Configuring Hyper-V
Course Number: 1793
Time: 30 Minutes

This course is a collection of demonstrations providing you with visual instruction. The focus of Show Me courses is to walk you step by step through how to use essential tools and key software. As you view these processes and procedures, you will see how to effectively apply industry techniques. Show Me training corresponds directly to a video course, containing topical training and supplemental materials that will deepen your understanding of the subjects portrayed here. To search for the corresponding course, browse by this course’s name and remove “Show Me.” Now, continue on and explore the tools and techniques that will help you excel in your day-to-day tasks.

Virtualization Using Hyper-V .................. 1793_001
Virtualized Storage and Disk Management.. 1793_002
Managing Virtual Networks...................... 1793_003

Show Me: Installing and Administering Active Directory
Course Number: 1794
Time: 120 Minutes

This course is a collection of demonstrations providing you with visual instruction. The focus of Show Me courses is to walk you step by step through how to use essential tools and key software. As you view these processes and procedures, you will see how to effectively apply industry techniques. Show Me training corresponds directly to a video course, containing topical training and supplemental materials that will deepen your understanding of the subjects portrayed here. To search for the corresponding course, browse by this course’s name and remove “Show Me.” Now, continue on and explore the tools and techniques that will help you excel in your day-to-day tasks.

Installing Domain Controllers.................. 1794_001
Creating and Managing
Active Directory Accounts ...................... 1794_002
Creating and Managing
Groups and Organizational Units.............. 1794_003

Show Me: Deploying and Configuring Core Network Services
Course Number: 1795
Time: 60 Minutes

This course is a collection of demonstrations providing you with visual instruction. The focus of Show Me courses is to walk you step by step through how to use essential tools and key software. As you view these processes and procedures, you will see how to effectively apply industry techniques. Show Me training corresponds directly to a video course, containing topical training and supplemental materials that will deepen your understanding of the subjects portrayed here. To search for the corresponding course, browse by this course’s name and remove “Show Me.” Now, continue on and explore the tools and techniques that will help you excel in your day-to-day tasks.

Configuring IP Addressing...................... 1795_001
Installing and Configuring DHCP ............ 1795_002
Deploying and Configuring DNS.............. 1795_003

Show Me: Configuring and Managing Group Policies in Active Directory
Course Number: 1796
Time: 120 Minutes

This course is a collection of demonstrations providing you with visual instruction. The focus of Show Me courses is to walk you step by step through how to use essential tools and key software. As you view these processes and procedures, you will see how to effectively apply industry techniques. Show Me training corresponds directly to a video course, containing topical training and supplemental materials that will deepen your understanding of the subjects portrayed here. To search for the corresponding course, browse by this course’s name and remove “Show Me.” Now, continue on and explore the tools and techniques that will help you excel in your day-to-day tasks.

Introduction to Group Policy .................... 1796_001
Managing Security with Group Policy......... 1796_002
Controlling Applications with Group Policy 1796_003
Configuring the Windows Firewall .......... 1796_004
Test Me: Microsoft Exam 70-410
Course Number: 1843
Time: 90 Minutes
Number of Quizzes: 1 Quiz

Test your knowledge and skills through this Test Me: Microsoft Exam 70-410. Prove to yourself, and others, that you are ready for Microsoft’s Installing and Configuring Server 2012 (70-410) certification exam. You’ll demonstrate your proficiency in the principles, techniques, and tools involved in configuring tasks that manage and configure Windows Server 2012 services. The instruction period is over; this Test Me provides you with a collection of questions based on the exam domains contained in testing for the actual certification exam. Wrap up your exam preparation with this Test Me pulling questions from our 70-410 course series.

Administering Windows Server 2012 (70-411) Series

Deploying, Maintaining, and Monitoring Servers in Windows Server 2012
Course Number: 895
Time: 180 Minutes
Number of Quizzes: 5 Quizzes

In this video training, students are walked through the tools, techniques, and practices required to use Windows Server 2012. Windows Server 2012 is designed to help company’s manage an IT infrastructure that is powerful and efficient. In the first section of the course, Deployment, students will learn how to deploy server images for network servers and the integral role of Windows Deployment Services. The Maintenance section introduces you to the features and capabilities of Windows Server Update Services. The final section deals with maintaining and monitoring servers using Performance Monitor, Event Viewer, Resource Monitor, Task Manager, and other monitoring solutions. Upon completion of this training, you will be better prepared for Microsoft’s 70-411 certification exam.

Deploy and Manage Server Images ............... 895_001
Configuring Windows Server Update Services ........................................ 895_002
Maintaining and Monitoring Servers ............... 895_003

Configuring Advanced File Services in Windows Server 2012
Course Number: 896
Time: 195 Minutes
Number of Quizzes: 6 Quizzes

Network administrators will look at various functionality provided by the additional role services that are a part of the file server role in Windows Server 2012. With knowledge gained through this course, administrators can appropriately assign access rights to users, securely track access to resources, as well as provide up to date and efficient access to those resources. Additionally, they will have covered essential skills and concepts needed to be prepare for the 70-411 certification exam.

Configuring the Distributed File System......... 896_001
Advanced File Services Management using File Server Resource Manager ................. 896_002
Configuring File and Disk Encryption ........... 896_003
Configuring Security Auditing ...................... 896_004

Configuring Network Access and Services in Windows Server 2012
Course Number: 897
Time: 240 Minutes
Number of Quizzes: 5 Quizzes

Take some time to prepare for Microsoft’s 70-411 certification exam. In this video training, look at the configuration of network access and services in Windows Server 2012. Windows Server 2012 is designed to help company’s manage an IT infrastructure that is powerful and efficient. Companies need to be able to locate all the resources that are stored on the server. This capability is wrapped up in the Domain Name System (DNS), which is covered in the first part of this course. Network administrators are familiarized with the components of DNS, and how to configure and maintain DNS. Another critical topic covered is remote access. Remote access is a unique feature to Windows Server 2012 that allows servers to be connected virtually without being at the same physical location through virtual private networks or a DirectAccess server.

Configuring Domain Name System ............. 897_001
Configuring Virtual Private Networks and Routing .......... 897_002
Configuring DirectAccess ......................... 897_003
Configuring a Network Policy Server Infrastructure in Windows Server 2012

Course Number: 898
Time: 240 Minutes
Number of Quizzes: 5 Quizzes

Network administrators will explore the ins and outs of a Network Policy Server and the infrastructure which it is. Students will start with an overview of network policy services, then go to how to configure network policies. The end of the course gives specific attention to configuring Network Access Protection, which is a component available via Network Policy and Access Services. By the end of this course, network administrators will have a thorough understanding of the network policy server infrastructure, and how to properly configure one to benefit an organization. With that knowledge, they can also be confident in their level of preparation for Microsoft’s 70-411 exam concerning NPS.

- Configuring Network Policy Servers .......... 898_001
- Configuring Network Policies ...................... 898_002
- Configuring Network Access Protection ...... 898_003

Configuring and Managing Group Policy in Windows Server 2012

Course Number: 900
Time: 240 Minutes
Number of Quizzes: 5 Quizzes

Looking to prepare for Microsoft’s 70-411 certification exam? Start off by studying Group Policy. Group Policy plays an important role in administering a network in an Active Directory environment. You will learn the skills needed to work within the Group Policy Management Console, how to configure Group Policy settings, the controls used in applying Group Policy, and about the resourcefulness of Group Policy templates.

- Introduction to Group Policy Implementation .................. 900_001
- Configuring Group Policy Application and Processing .............. 900_002
- Managing Group Policy Objects .................. 900_003

Test Me: Microsoft Exam 70-411

Course Number: 1845
Time: 90 Minutes
Number of Quizzes: 1 Quiz

Test your knowledge and skills through this Test Me: Microsoft Exam 70-411. Prove to yourself, and others, that you are ready for Microsoft’s Administering Windows Server 2012 (70-411) certification exam. You’ll demonstrate your proficiency in the principles, techniques, and tools involved in configuring tasks that administer Windows Server 2012 services. The instruction period is over; this Test Me provides you with a collection of questions based on the exam domains contained in testing for the actual certification exam. Wrap up your exam preparation with this Test Me pulling questions from our 70-411 course series.

Configuring Advanced Windows Server 2012 Services (70-412) Series

Configuring File and Storage Solutions in Windows Server 2012

Course Number: 901
Time: 240 Minutes
Number of Quizzes: 4 Quizzes

There are many advanced file services and features available in Windows Server 2012. This course provides you with a closer look at the File Server Resource Manager role service to classify files for special handling, data de-duplication, features on demand, the use of BranchCache to minimize WAN link utilization, and the implementation of Dynamic Access Control, which is new to the Windows
Server 2012 operating system. All of these components provide enhanced capabilities in Windows Server 2012 to manage file servers and are extremely important to network administrators. Focusing on these topics will aid in preparing you for the Microsoft 70-412 exam.

Configuring Advanced File Services .......... 901_001
Dynamic Access Control ....................... 901_002
Managing Network Storage ................... 901_003

Configuring Network Services in Windows Server 2012
Course Number: 902
Time: 195 Minutes
Number of Quizzes: 4 Quizzes

Core network services are imperative to any network administrator planning to implement Windows Server 2012, and can be applied to organizations of all sizes. This course provides a look at the deployment of DHCP servers throughout the enterprise, as well as some of the more advanced configurations for DHCP. This includes some of the new high availability options in this version of the operating system. Various DNS implementation techniques are identified, in addition to ways in which you can increase security for your DNS infrastructure. IPAM, or IP Address Management, is a new Windows Server 2012 and is defined and discussed in detail in order for network administrators to understand its organizational benefits. This is course two of the Configuring Advanced Windows Server 2012 Services (70-412) series.

Implementing DHCP Solutions ................. 902_001
Implementing DNS Solutions ............... 902_002
Implementing IP Address Management ...... 902_003

Configuring the Active Directory Infrastructure in Windows Server 2012
Course Number: 903
Time: 240 Minutes
Number of Quizzes: 5 Quizzes

It’s critical for a network administrator to understand how to implement Active Directory in an environment of any size. This course begins with a discussion of distributed environments that use Active Directory as a directory service in order to better understand some of the reasons behind setting up a distributed environment. Network administrators must also be familiar with the various components in both the logical and physical infrastructure of Active Directory. The implementation of replication for the Active Directory database involves a discussion around the physical components of the Active Directory infrastructure, primarily sites and site links. The methods which can be used to optimize the process of replicating changes to the Active Directory database are identified and demonstrated. This is course 3 in this series dedicated to preparing you for the Configuring Advanced Windows Server 2012 Services (70-412) exam.

Implementing Active Directory Distributed Environments .......... 903_001
Implementing Active Directory Sites and Replication ............. 903_002
Optimizing AD DS Replication ................ 903_003

Configuring Identity and Access Solutions in Windows Server 2012
Course Number: 904
Time: 360 Minutes
Number of Quizzes: 5 Quizzes

The topics in this course represent some of the greatest capabilities to increase the overall level of security in a Windows Server 2012 infrastructure. You’ll begin with a look at the implementation of Active Directory Certificate Services (AD CS), which provides the foundation of a Public Key Infrastructure for organizations seeking to utilize digital certificates for the purposes of authentication and encryption. The implementation of Active Directory Federation Services is introduced, which provides the ability to extend single sign-on capabilities outside of the organizational boundaries. Active Directory Rights Management Services (AD RMS) is introduced as another role available in Windows Server 2012 that increases the overall security of the organization and its data. This is course four of the Configuring Advanced Windows Server 2012 Services (70-412) series.

Implementing Active Directory Certificate Services (AD CS) .... 904_001
Implementing Active Directory Federation Services (AD FS) .... 904_002
Implementing Active Directory Rights Management Services (AD RMS) .... 904_003

Configuring and Managing High Availability in Windows Server 2012
Course Number: 905
Time: 240 Minutes
Number of Quizzes: 5 Quizzes

Because network applications and services that are running on a Windows Server 2012 machine are extremely important, it is critical for network administrators to understand how to implement high availability for these technologies. This course covers the configuration and management of highly available Windows Server 2012
infrastructures. You’ll begin with a look at Network Load Balancing – its capabilities, the specific scenarios in which it is useful, the planning aspects of an NLB implementation, and deploying and configuring NLB. Failover clustering is introduced and the features and benefits are discussed, as well as the various components and steps involved in implementing them. You’ll be given an explanation and demonstration of failover clustering in Hyper-V, as well as configuring VMs in a failover clustering environment and available options in Hyper-V for managing virtual machine movement. This is the fifth course in the Configuring Advanced Windows Server 2012 Services (70-412) series.

Implementing Network Load Balancing .......... 905_001
Implementing Failover Clustering.................. 905_002
Failover Clustering and Hyper-V .................. 905_003

Implementing Business Continuity and Disaster Recovery in Windows Server 2012
Course Number: 906
Time: 165 Minutes
Number of Quizzes: 4 Quizzes

When disaster strikes, network administrators are called upon to recover data and sometimes even entire operating systems. This course looks at implementing business continuity and disaster recovery in the Windows Server 2012 operating system. You’ll begin with a look at the process for configuring and managing backups of both servers and application data. This includes an overview of the concepts behind disaster recovery and the various processes which are involved. Recovering information using the Windows backup utility and implementing site level recovery to ensure business continuity in network infrastructures that utilize Windows Server 2012 is also covered. This is the final course in the Configuring Advanced Windows Server 2012 Services (70-412) series.

Configuring and Managing Backups............. 906_001
Implementing Server Recovery...................... 906_002
Implementing Site Level Recovery.................. 906_003

Test Me: Microsoft Exam 70-412
Course Number: 1835
Time: 90 Minutes
Number of Quizzes: 1 Quiz

Test your knowledge and skills through this Test Me: Microsoft Exam 70-412. Prove to yourself, and others, that you are ready for Microsoft’s Configuring Advanced Windows Server 2012 Services (70-412) certification exam. You’ll demonstrate your proficiency in the principles, techniques, and tools involved in configuring tasks that manage and configure Windows Server 2012 services. The instruction period is over; this Test Me provides you with a collection of questions based on the exam domains contained in testing for the actual certification exam. Wrap up your exam preparation with this Test Me pulling questions from our 70-412 course series.

Designing and Implementing a Server Infrastructure (70-413) Series
Planning and Deploying a Server Infrastructure in Windows Server 2012
Course Number: 907
Time: 300 Minutes
Number of Quizzes: 5 Quizzes

Go beyond what you learned for your first three Windows Server 2012 certifications as you focus on what you need to know to implement Windows Server 2012 in a large scale enterprise. This course is the first in the Microsoft 70-413 series. The goal for this course is to provide you not only with sufficient knowledge to pass the 70-413 exam, but to also allow you to perform well as an enterprise-level administrator. Automation encompasses a large part of the discussions. You’ll also look at the enhancements in virtualization technology that have been implemented in Windows Server 2012 and Windows Server 2012 R2, as well as the enhanced features for File and Storage Services. Enterprise data centers can be extremely complex, and difficult to maintain, so gain an in-depth understanding of how to properly manage a Windows Server 2012 environment.

Understanding the 70-414 Exam...................... 907_001
Design an Automated Server Installation Strategy ...................... 907_002
Plan and Implement a Server Deployment Infrastructure ........... 907_003
Plan and Implement Server Upgrade and Migration ................. 907_004
Plan and Deploy Virtual Machine Manager Services ............. 907_005
Plan and Implement File and Storage Services .................. 907_006
Designing and Implementing Network Infrastructure Services in Windows Server 2012
Course Number: 908
Time: 135 Minutes
Number of Quizzes: 3 Quizzes

In this second course in the Microsoft 70-413 certification series, you will look at three of the infrastructure services that are used in enterprise-level networks. They are Dynamic Host Configuration Protocol, the Domain Name System, and Internet Address Management. In studying these services, you will start with a system that’s already been set up, and then talk about ways to improve performance and reliability in an enterprise setting. Additionally, you’ll spend time learning about IPAM. In your studies for the 70-412 exam, you were introduced to IPAM, but there has been a fairly significant overhaul done in Windows 2012 R2. As such there are a lot of new features to delve into. The material provided in this course is a vital component when designing and implementing a well-functioning Server 2012 network infrastructure.

Design and Maintain a DHCP Solution........... 908_001
Design a Name Resolution Solution Strategy 908_002
Design and Manage an IP Address Management Solution.................. 908_003

Designing and Implementing Network Access Services in Windows Server 2012
Course Number: 909
Time: 120 Minutes
Number of Quizzes: 3 Quizzes

This is the third course in the Microsoft 70-413 certification exam series. You’ll look first at designing a remote access solution, with either a VPN or DirectAccess. Expanding on that topic, you will study how to design a scalable remote access solution. Then, you’ll find discussions on designing and implementing a Network Access Protection solution. You’ve learned about all of these technologies in your studies for the MCSA certification; so in this course, we’ll focus mostly on the design aspects. Collectively these technologies can provide a network access solution that is secure and highly functional. Overall, you will gain essential skills needed to become a systems administrator.

Design a VPN Solution ......................... 909_001
Design a DirectAccess Solution............. 909_002
Design a Network Protection Solution........ 909_003

Designing and Implementing a Logical AD Infrastructure
Course Number: 910
Time: 210 Minutes
Number of Quizzes: 3 Quizzes

Active Directory Domain Services have both a logical and a physical structure. To be a successful systems administrator, you need a thorough understanding of both sides of AD DS. For now, you’ll focus your studies on the design and implementation of the logical structure of Active Directory. Start by looking at the primary components in an AD DS infrastructure, specifically the forest and the domain. You will then learn about the various design decisions that relate to these components, and the steps that are taken to implement them successfully. You will then move on to designing a strategy for Group Policy implementation. Finally, your studies will concentrate on designing a permissions model for Active Directory. Many organizations must delegate authority within the Active Directory infrastructure based on the administrative model. You will observe a few considerations and methods for implementing control model delegation. All in all, the topics taught create the fourth course in the Designing and Implementing a Server Infrastructure series for the Microsoft 70-413 exam.

Design and Implement Forests and Domains.......................... 910_001
Designing a Group Policy Strategy........... 910_002
Designing an Active Directory Permissions Model......................... 910_003

Designing and Implementing a Physical AD Infrastructure
Course Number: 911
Time: 225 Minutes
Number of Quizzes: 3 Quizzes

Take a look at the physical topology in Active Directory, as in the physical database and the machines on which that physical database is stored – domain controllers. You will study how to design replication to occur consistently and efficiently in an Active Directory environment that contains multiple domain controllers. You will also look at the implementation of domain controllers, specifically focusing on additional options such as global catalog servers and their placement within the organization. Finally, you spend time learning about designing and implementing branch office infrastructures. Branch offices may or may not contain Active Directory domain controllers, and as such will warrant different design considerations. This the final course in the 70-413 series. With the information gained in this course, along with the other courses in this series, you now have a strong
foundation in Designing and Implementing a Windows Server 2012 server infrastructure.

Active Directory Replication Implementation.......................... 911_001
Domain Controllers Design and Implementation......................... 911_002
Branch Office Infrastructures Design and Implementation........... 911_003

Test Me: Microsoft Exam 70-413
Course Number: 1801
Time: 90 Minutes
Number of Quizzes: 1 Quiz

Test your knowledge and skills through this Final Exam: 70-413. Prove to yourself, and others, that you are ready for Microsoft's Designing and Implementing a Server Infrastructure (70-413) certification exam. You'll demonstrating your proficiency in the principles, techniques, and tools needed to deploy and virtualize Windows Server 2012. You'll also showcase your ability to plan and implement a server infrastructure. The instruction period is over; this Final Exam provides you with a collection of questions to simulate testing for the actual certification exam. You'll find questions from each exam domain. Wrap up your exam preparation with this Final Exam pulling questions from our 70-413 course series.

Implementing an Advanced Server Infrastructure (70-414) Series

Managing and Maintaining a Server Infrastructure
Course Number: 1548
Time: 270 Minutes
Number of Quizzes: 3 Quizzes

You'll look at the procedures, tools, and techniques needed to manage and maintain a server infrastructure. Specifically, you are going to examine the planning and implementation required for Enterprise Data Centers. You'll start by learning about planning and implementing a monitoring strategy. First, you'll discuss the importance of performance monitoring, especially in the data center, as well as the different types of monitoring that are available and the performance monitoring tools. Then, you'll look at the implementation of System Center Operations Manager, or SCOM, as an enterprise centralized monitoring solution. Overall, the information in this course should prepare you to work with both physical and virtual data centers that run the Windows Server 2012 Operating System.

Planning and Implementing a Monitoring Strategy .................. 1548_001
Planning and Implementing Software Updates ......................... 1548_002
Planning and Implementing Administrative Models ................. 1548_003

Planning and Implementing a Highly Available Enterprise Infrastructure
Course Number: 1546
Time: 360 Minutes
Number of Quizzes: 3 Quizzes

You will analyze planning and implementing a highly available infrastructure in Windows Server 2012. You will begin by looking at failover clustering and network load-balancing. You will examine the various components in each of these technologies and a variety of design considerations for their use. You will then look at planning and implementing high availability for server roles and applications. You will focus primarily on implementing high availability for the file server by implementing technologies such as the distributed file system and new scale out file server cluster in Windows Server 2012. You will review the planning and implementation of business continuity solutions, including disaster recovery strategies. You will deepen your understanding of the importance of business continuity planning in case of high availability mechanisms fail, because it allows you to restore those services and technologies in an efficient manner. All in all, this course aids in preparing you for exam topics in the 70-414 exam. This is the second course in the 70-414 exam series.

Failover Clustering and Network Load Balancing ...................... 1546_001
High Availability for Server Roles and Applications ................. 1546_002
Business Continuity Solutions ........................................... 1546_003

Planning and Implementing a Server Virtualization Infrastructure
Course Number: 1545
Time: 240 Minutes
Number of Quizzes: 3 Quizzes

Go over planning and implementing a virtualization infrastructure. You will discover that in many of today's data centers physical machines are no longer heavily used. Therefore, you will explore the transformation of data centers. You will also look at System Center
Virtual Machine Manager and the role that it plays in a public/private cloud infrastructure. You will study the implementation of virtual host and the virtual guest operating systems using VMM. Then you will get into the planning and implementation of storage in the numerous features and benefits the VMM provides in this very critical area. And finally you will spend time learning about the planning and implementation of networking. This course is the third in the 70-414 exam series. Information in this course is meant to give you an overview of virtualization to ensure that you understand the capabilities of VMM as it relates to working with virtual machines running the Windows Server 2012 operating system.

Planning and Implementing
Virtualization Hosts and Guests........... 1545_001
Planning and Implementing Storage........ 1545_002
Planning and Implementing Networking .... 1545_003

Show Me: Planning and Implementing a Highly Available Infrastructure (1711)

This course is a collection of demonstrations providing you with visual instruction. The focus of Show Me courses is to walk you step by step through how to use essential tools and key software. As you view these processes and procedures, you will see how to effectively apply industry techniques. Show Me training corresponds directly to a video course, containing topical training and supplemental materials that will deepen your understanding of the subjects portrayed here. To search for the corresponding course, browse by this course’s name and remove “Show Me.” Now, continue on and explore the tools and techniques that will help you excel in your day-to-day tasks.

Planning and Implementing
a Monitoring Strategy .................... 1709_001
Planning and Implementing
Software Updates ........................ 1709_002
Planning and Implementing
Administrative Models .................... 1709_003

Designing and Implementing Identity and Access Solutions (1544)

At the end of this course, you’ll come away with a better understanding of how to plan and implement identity access solutions in Windows Server 2012. You will begin by looking at a certificate services infrastructure. Within the course content, you are provided with an overview of Public Key Infrastructure and its various components. You will also spend time focusing on the implementation of Certificate Authorities, and the various types and hierarchies that an organization may utilize to meet its requirements. You will also take a closer look into the planning aspects to ensure that a Public Key Infrastructure implementation will meet the particular business needs of an organization. You’ll find discussions on the options for certificate revocation. From there, you will look at implementing and planning a federated services infrastructure, both internally and externally. Finally, you will look at information rights management in the form of ADR MS. These topics make up the final course in the 70-414 series.

Certificate Services Infrastructure............ 1544_001
Federated Services Infrastructure............. 1544_002
Information Rights Management Solution... 1544_003

Show Me: Planning and Implementing a Server Virtualization Infrastructure (1712)

This course is a collection of demonstrations providing you with visual instruction. The focus of Show Me courses is to walk you step by step through how to use essential tools and key software. As you view these processes and procedures, you will see how to effectively apply industry techniques. Show Me training corresponds directly to a video course, containing topical training and supplemental materials that will deepen your understanding of the subjects portrayed here. To search for the corresponding course, browse by this course’s name and remove “Show Me.” Now, continue on and explore the tools and techniques that will help you excel in your day-to-day tasks.

Failover Clustering and
Network Load Balancing .................... 1711_001
High Availability for
Server Roles and Applications .............. 1711_002
Business Continuity Solutions .............. 1711_003

Show Me: Managing and Maintaining a Server Infrastructure (1709)

This course is a collection of demonstrations providing you with visual instruction. The focus of Show Me courses is to walk you step by step through how to use essential tools and key software. As you view these processes and procedures, you will see how to effectively apply industry techniques. Show Me training corresponds directly to a video course, containing topical training and supplemental materials that will deepen your understanding of the subjects portrayed here. To search for the corresponding course, browse by this course’s name and remove “Show Me.” Now, continue on and explore the tools and techniques that will help you excel in your day-to-day tasks.
materials that will deepen your understanding of the subjects portrayed here. To search for the corresponding course, browse by this course’s name and remove “Show Me.” Now, continue on and explore the tools and techniques that will help you excel in your day-to-day tasks.

Planning and Implementing
Virtualization Hosts and Guests .................. 1712_001
Planning and Implementing Storage ............ 1712_002
Planning and Implementing Networking ...... 1712_003

Show Me: Designing and Implementing Identity and Access Solutions
Course Number: 1713
Time: 75 Minutes

This course is a collection of demonstrations providing you with visual instruction. The focus of Show Me courses is to walk you step by step through how to use essential tools and key software. As you view these processes and procedures, you will see how to effectively apply industry techniques. Show Me training corresponds directly to a video course, containing topical training and supplemental materials that will deepen your understanding of the subjects portrayed here. To search for the corresponding course, browse by this course’s name and remove “Show Me.” Now, continue on and explore the tools and techniques that will help you excel in your day-to-day tasks.

Certificate Services Infrastructure............. 1713_001
Federated Services Infrastructure.............. 1713_002
Information Rights Management Solution... 1713_003

Test Me: Microsoft Exam 70-414
Course Number: 1804
Time: 90 Minutes
Number of Quizzes: 1 Quiz

Test your knowledge and skills through this Test Me: Microsoft Exam 70-414. Prove to yourself, and others, that you are ready for Microsoft’s Implementing an Advanced Server Infrastructure (70-414) certification exam. You’ll demonstrate your proficiency in the principles, techniques, and tools needed to manage and configure Windows Server 2012 services. The instruction period is over; this Test Me provides you with a collection of questions based on the exam domains contained in testing for the actual certification exam. Wrap up your exam preparation with this Test Me pulling questions from our 70-414 course series.

Security

CEHv8 Series

Footprinting
Course Number: 1676
Time: 75 Minutes
Number of Quizzes: 3 Quizzes

Footprinting is the gathering of information related to a particular computer and its users and systems. In this course you will learn the various tools and techniques used in footprinting as well as prevention and countermeasures that you can take to protect yourself and your systems. We will pair this with in-depth demos on some of the tools and their uses.

Footprinting/Reconnaissance ...................... 1676_001
Methodology ........................................... 1676_002
Tools ..................................................... 1676_003
Countermeasures .................................... 1676_004

Reconnaissance
Course Number: 1677
Time: 75 Minutes
Number of Quizzes: 3 Quizzes

Reconnaissance is an exploration that is conducted to gain information. In this course, you will be learning the tools and steps for assessing computers, computer systems, networks, and applications. We will include in-depth demos that go into further detail on the uses of many of these tools.

Reconnaissance ........................................ 1677_001
Footprinting ............................................ 1677_002
Scanning .................................................. 1677_003
Countermeasures .................................... 1677_004

Banner Grabbing
Course Number: 1681
Time: 75 Minutes
Number of Quizzes: 3 Quizzes

Banner grabbing is a technique used to grab information about computer systems on a network and the services running its open ports. In the course, Banner Grabbing, you will be learning the tools and techniques used in the process of banner grabbing. You will learn how to take inventory of the systems and services on your networks. You will be able to identify potential risks of banner grabbing and learn steps to take to protect your networks and systems from the potential threat of an intruder using
Banner grabbing. We will pair this course with demos on the tools you will be discussing.

Banner Grabbing ............................................. 1681_001
Countermeasures ............................................. 1681_002

**Enumeration**

Course Number: 1682  
Time: 75 Minutes  
Number of Quizzes: 3 Quizzes

Every system has its own services running on the network, in many cases those services can reveal sensitive information about network topology, users and groups etc. services like LDAP or NTP can be enumerated to reveal such information. In this course you will be introduced to enumeration and the many different uses it has in computer systems. This course will include demos on the different tools and uses of enumeration.

Enumeration ............................................. 1682_001
Enumerating Services and Countermeasures ............................................. 1682_002

**Linux Fundamentals**

Course Number: 1671  
Time: 75 Minutes  
Number of Quizzes: 3 Quizzes

Linux was developed as a free operating system for Intel x86 based personal computers. It is a leading operating system on servers. Linux runs on embedded systems. The most widely used operating system for mobile technology (tablets and smartphones) is built on top of the Linux kernel. In this course you will be learning the fundamentals of Linux. We will be pairing this course with demos with a more in-depth look into some of the fundamentals and tools of Linux.

Introduction to Linux ..................................... 1671_001
Working in Linux .......................................... 1671_002

**Configuring Linux for Pentesting**

Course Number: 1672  
Time: 75 Minutes  
Number of Quizzes: 3 Quizzes

Servers are primary targets for attackers. Pentesting is an attack on a system in hopes of finding security weaknesses. In the course Configuring Linux for Pentesting, you will be learning the steps to configure Linux for pentesting and tools used for pentesting on a Linux system. This course will be combined with demos that will delve deeper and give you real world examples of the tools and programs that Linux uses to accomplish pentesting.

Configuring Linux for Pentesting ..................... 1672_001
Pentesting on Linux ...................................... 1672_002

**System Hacking**

Course Number: 1683  
Time: 90 Minutes  
Number of Quizzes: 4 Quizzes

Ensure that you know everything involved in securing a Windows system against attack. During this course you’ll get into Windows passwords — how they’re created, how they’re stored, and different methods used to crack them. You’ll discover different methods used for guessing passwords and breaking the different security methods used within the Windows operating system. You’ll find discussions on responding to privilege escalation. You’ll also spend some time going through a couple of scenarios demonstrating how to use key defense tools. Overall, the topics explored here will teach you how to increase security on your Windows machines, as well as show you required procedures and tools to prepare for different certification exams from EC-Council, CompTIA, Linux, and CISSP.

Windows Hacking ........................................ 1683_001
Password Attacks ........................................ 1683_002
Alternate Data Streams ................................. 1683_003
Steganography .......................................... 1683_004
Rootkits .................................................. 1683_005
Course Summary ......................................... 1683_006

**Spyware & Keyloggers**

Course Number: 1684  
Time: 90 Minutes  
Number of Quizzes: 3 Quizzes

You will take a good look at spyware, the activities it performs, different types of spyware, and the countermeasures needed in order to prevent hackers from utilizing these types of techniques against your company. You will also spend time studying different types of keyloggers. There are three different types of keyloggers that we see used in today’s environments: hardware, software, and kernel/driver keyloggers. A good pen tester or ethical hacker cannot perform his or her job properly without understanding the countermeasures for all of the hacking techniques used against today’s computer systems. Overall, these topics will help prepare you for certification exams from vendors, such as Linux, CompTIA, and EC-Council.

Spyware Uncovered ...................................... 1684_001
Keyloggers ............................................... 1684_002
Viruses and Worms
Course Number: 1686
Time: 90 Minutes
Number of Quizzes: 3 Quizzes

You will discover what viruses and worms are and how they can infect computers and systems. You’ll study their nature, how they function, and their impact. You will also spend time going through discussions on varieties of each, along with some real life examples. Refine your understanding of viruses and worms to better your system. The knowledge you gain here will prepare you to be a more effective network administrator. Furthermore, the topics covered here will help with preparing you for security certification exams offered by EC-Council, CompTIA, and Linux.

Viruses................................................. 1686_001
Worms ............................................... 1686_002

Denial-of-Service
Course Number: 1689
Time: 90 Minutes
Number of Quizzes: 4 Quizzes

Become familiar with the following concepts: denial-of-service, distributed denial-of-service, and how the denial-of-service and distributed denial-of-service attacks take place. You will also see what botnets are and how they are used to attack your system or network. You will find explanations on the tools that are used to attack, and how you can detect such attacks. You will be introduced to different countermeasures, so that you can plan, prepare, and establish the relevant countermeasures to protect your organization. You will also learn how DoS and DDoS can be used in penetration testing. You will go through discussions on how to protect your organization from the distributed denial-of-service attacks and denial-of-service penetration testing. Altogether, these topics focus on deepening your understanding of security concepts and practices, so that you’re a more efficient network administrator. With the skills you gain here, you’re equipped to pursue a number of security certifications from CompTIA, EC-Council, and CEH.

Denial-of-Service & Distributed
Denial-of-Service ........................................... 1689_001
Digital Attack Map................................. 1689_002
Botnets.................................................. 1689_003
DoS/DDoS Attack Tools and Detection....... 1689_004
DoS/DDoS Countermeasures.................... 1689_005
DoS/DDoS in Penetration Testing.............. 1689_006

Vulnerability Assessment
Course Number: 1670
Time: 75 Minutes
Number of Quizzes: 3 Quizzes

Our course Vulnerability Assessment will introduced to the concepts of: Vulnerability Assessment, Vulnerability Assessment Tools, and Patch Management. It will offer demos on several of the vulnerability assessment tools that are available, as well as in-depth discussions on the benefits of these tools. We will discuss the process of analyzing the scan results that the vulnerability assessment tools provide. Finally, we will discuss patch management and some tools that are available for this process, and at the end of this course you will be able to create a comprehensive VA program, identify key vulnerabilities, and perform mitigation actions before those vulnerabilities can be exploited.

Testing Vulnerabilities............................... 1670_001
Results, Reports, and Remediation ............. 1670_002

Covering Tracks
Course Number: 1688
Time: 75 Minutes
Number of Quizzes: 3 Quizzes

In Covering Tracks, we will be going over various ways that attackers have at their disposal to cover any tracks that may lead to their unwanted eviction or worse yet to an audit trail that would lead directly back to them. In this course we will be discussing, disabling auditing during or after an event, steps to take once it is disabled, and destroying any evidence. We will be going over various ways to avoid detection on Linux machines, and this will include several in-depth demos on various operations for the Linux machines.

Avoiding Detection on Windows Machines . 1688_001
Avoiding Detection on Linux Machines ....... 1688_002
Destroying the Evidence ......................... 1688_003
Log Protection Techniques....................... 1688_004

Disaster Recovery and Risk Management
Course Number: 1668
Time: 30 Minutes
Number of Quizzes: 3 Quizzes

Since you are a part of IT operations in your enterprise, you could be involved in planning and applying policies related to Risk Management and/or Disaster Recovery. In our course Disaster Recovery and Risk Management, you will receive an introduction to the basics of Risk Management and Disaster Recovery. When you have
completed the course, you will be able to identify a risk and the effect that it has on daily operations. You will gain an understanding of security measures and how they are implemented, as well as, the importance and the process of managing risk in your environment. We will partner this with a detailed demo on the process of risk assessment. You will gain an understanding of Disaster Recovery, be able to define what a disaster is, rank a disaster, and create a plan that will define how to recover from a disaster, as well as, successfully recovering your data.

Risk Management.......................... 1668_001
Disaster Recovery ............................ 1668_002

Trojans and Backdoors
Course Number: 1685
Time: 90 Minutes
Number of Quizzes: 4 Quizzes

As an ethical hacker, there are times when you need to hide software from the company that you are performing the test against in order to verify that the defensive strategy is able to find your software. Trojans and Backdoors is the course where our software is going to be going undercover. In this course we are going to define malware and take a look at how a payload is delivered. We will overview the various Trojan tools, and tools used to generate Trojan programs, as well as, learning about Netcat. We will spend time going over countermeasures and various anti-Trojan software and hardware, and preventive methods that can be used to prevent attacks. We will also be incorporating several demos on the many tools that we will be discussing in this course.

Defining Malware........................... 1685_001
Malware........................................... 1685_002
Tools of the Trade ............................. 1685_003
Countermeasures............................. 1685_004
Course Summary ................................ 1685_005

Introduction to Ethical Hacking
Course Number: 1667
Time: 90 Minutes
Number of Quizzes: 3 Quizzes

Ethical hacking is testing the resources for a good cause and for the betterment of technology. In our course Introduction to Ethical Hacking, you will be introduced to various concepts on ethical hacking. We will be talking about vulnerabilities, exploits, defense strategy, penetration testing, pentest types and methodology, vulnerability management, incident management, and security policy development, and at the end of this course we hope you will have a basic understanding of the various concepts involved in ethical hacking.

Introduction to Hacking ....................... 1667_001
Security Management ........................ 1667_002

Penetration Testing
Course Number: 1669
Time: 60 Minutes
Number of Quizzes: 3 Quizzes

Penetesting is an intentional attack on a system to discover security weaknesses. These can be left either by the security officer or the security controls. Penetration Testing is our course that covers security, vulnerabilities, different types of tests, and when to test as a pen tester. We have paired this with an in-depth demo on vulnerability assessment using the tool Nexpose. At the end of this course we will have reviewed security and vulnerability assessment, and the differences between automatic and manual testing.

Penetration Testing Introduction .............. 1669_001
Organizational Considerations ................ 1669_002

Port Scanning
Course Number: 1680
Time: 105 Minutes
Number of Quizzes: 3 Quizzes

When a port is scanned on a server, the port returns a response indicating that the port is open and a service is listening. In our course Port Scanning, you will learn how ports can be scanned, how a hacker can break into your network through the ports, and the countermeasures you can take to protect your device or network. Our course will offer in-depth discussions on port scanning methods and techniques, port scanning tools, and port scanning countermeasures. We will partner this with detailed demos on Ping, Ping tester, and Netstat.

Port Scanning .................................. 1680_001
Advanced Techniques.......................... 1680_002

Sniffers
Course Number: 1687
Time: 90 Minutes
Number of Quizzes: 3 Quizzes

Sniffers is our course where we take a look at Network Sniffing. We will be covering the basics of packet sniffing, ARP cache poisoning, DNS spoofing, SSL sniffing, VoIP phone calls and sniffing remote desktop connections. This
Advanced Exploitation Techniques

Course Number: 1870
Time: 75 Minutes
Number of Quizzes: 3 Quizzes

Exploit is a common term in the computer security community that refers to a piece of software that takes advantage of a bug or glitch. In our course Advanced Exploitation Techniques, you will learn what advanced exploitation techniques are and how you can use them in your penetration testing. You will also learn how to use Metasploit to exploit vulnerabilities. This will be coupled with in-depth demos on using Metasploit, and other Metasploit tools, such as, Meterpreter, Armitage, and Armitage-mimikatz.

Cryptography

Course Number: 1673
Time: 75 Minutes
Number of Quizzes: 3 Quizzes

Traditional cryptography uses a secret key for encrypting and decrypting a message. This is also known as symmetric keys. Public key cryptography, the CA creates private and public keys using the same algorithm, it functions asymmetrically. In the course Cryptography, you will discuss Public Key Infrastructures, Certificate Authorities, and Certificate management. We will combine that with in-depth demos on PKI Installation, Config-complete, CRL, Enroll Certificate, and CA Management. We will discuss the steps to create and manage a public key infrastructure, and the relationship between public key infrastructures and certificate authority, as well as, both traditional cryptography and public key cryptography, the implementation of certificates, and managing certificates.

Scanning Networks

Course Number: 1679
Time: 60 Minutes
Number of Quizzes: 3 Quizzes

Network scanning is the scanning of public or private networks to find out which systems are running, their IP addresses, and which services they are running. In our course Network Scanning, you will learn techniques for private and public network scanning using various tools. Accompanied with in-depth demos and discussions on how to use Angry IP, Nmap, Hping, and Zmap network scanners. Through this, you will learn the steps to network scanning, how to draw a network map, and plan an attack accordingly.
between two computers and using it for sinister purposes. In the course Session Hijacking, you will learn about session hijacking, well-known techniques employed by aggressors, the steps involved in session hijacking, various types of session hijacking, tools for hijacking sessions, ways you can protect yourself from session hijacking, and how penetration can be used to identify vulnerabilities.

Session Hijacking: 1692_001
Countermeasures: 1692_002

Buffer Overflows
Course Number: 1693
Time: 75 Minutes
Number of Quizzes: 3 Quizzes

Buffer overflow occurs when you try to store more data than what the allocated buffer or storage area can hold. In this course you will be introduced to the concepts of buffer overflows, how they happen, and how attackers take advantage of them. You will also learn how to defend against buffer overflow attacks, and what security measures you can take to protect your data. We will accompany this with several demos that will delve deeper and help you understand some of the specific topics that will be discussed.

Buffer Flow: 1693_001
Program and Application Vulnerability: 1693_002
Defense, Countermeasures, and Security: 1693_003

Hacking Wireless Networks
Course Number: 1695
Time: 60 Minutes
Number of Quizzes: 3 Quizzes

Wireless attacks have become easy; even unskilled people with little computer literacy can accomplish them. This is because of the many automated tools available to perform this hack. In our course Hacking Wireless Networks, we will not be focusing on weaknesses of your wireless networks or how to protect them, instead, we will focus on showing you how to gain access to a wireless network.

Hacking Wireless Networks: 1695_001
Hacking Windows: 1695_002

Social Engineering
Course Number: 1678
Time: 60 Minutes
Number of Quizzes: 3 Quizzes

Social engineering is the art of extorting employees for information. It can take the form of human-based or digital. In our course Social Engineering, you will learn what social engineering is, who’s at risk, and how to protect and educate your employees against social engineering. You will learn the importance of creating a security policy, and how to deal with the threat of human-based attacks from both outside and inside the company. You will learn what kind of risks computer-based attacks, and social media present. We will couple this with in-depth demos on phishing email, SET-webTemplate, SET-spear phishing, SET-trojan, and SET SMS Spoofing.

Social Engineering: 1678_001
Social Engineering Demos: 1678_002

Authentication Systems
Course Number: 1674
Time: 60 Minutes
Number of Quizzes: 3 Quizzes

Whenever we login to a computer system, we provide information to identify ourselves. We refer to this as authentication. Authentication has been developed to contain more than just username and password because we are looking for added layers of security. In this course we will be covering authentication factors, forms of authentication, and authentication protocols. We will also be going over RADIUS, LDAP, and SSO. We will pair this with several demos depicting practical uses of the many tools that we will discuss in this course.

Introduction: 1674_001
Authentication Protocols: 1674_002
RADIUS, LDAP, and SSO: 1674_003

Cryptography Weaknesses
Course Number: 1675
Time: 75 Minutes
Number of Quizzes: 4 Quizzes

Cryptography is the science of writing in secret code and is considered an ancient art. The first documented use of cryptography dates back to circa 1900 B.C. In our course Cryptography Weaknesses, we will discuss weaknesses in cryptography and ways to improve your security. We will also cover the use of symmetric and asymmetric keys and the use of hybrid keys, as well as, the use of hashing algorithms and digital signatures. We will pair this with several demos to show you how each of these works in practical situations.

Encryption: 1675_001
Symmetric Encryption: 1675_002
Asymmetric Encryption: 1675_003
Hashing Algorithms: 1675_004
Digital Signatures: 1675_005
Cross-Site Scripting
Course Number: 1694
Time: 60 Minutes
Number of Quizzes: 3 Quizzes

As a security tester or security analyst, it is important that you are aware of cross-site scripting vulnerabilities and how they may be exploited by attackers. In our course Cross-Site Scripting, you will gain a comprehensive understanding of cross-site scripting, you will learn how to prevent it, and how you can test to identify cross-site scripting vulnerabilities. You will also learn what cross-site scripting is and what the different types of cross-site scripting you may come across. This course will also be paired with several demos that give you a real world view of what we have and will cover in this course.

Cross-Site Scripting .......................... 1694_001
Types of Cross-Site Scripting .................. 1694_002
Preventing Cross-Site Scripting ............... 1694_003

Mobile Hacking Basics
Course Number: 1697
Time: 90 Minutes
Number of Quizzes: 3 Quizzes

Mobile hacking can be anything from searching for unlocked Wi-Fi networks, to the hacking of Android OS or IOS systems. In our course Mobile Hacking Part 1, we will give you a basic introduction of the tools and concepts behind mobile hacking with demos giving you a look at some of these tools in action.

Securing Mobile Basics ......................... 1697_001
Mobile Security Considerations .............. 1697_002
Hardening Mobile Devices ..................... 1697_003

Physical Security
Course Number: 1699
Time: 75 Minutes
Number of Quizzes: 4 Quizzes

What kind of security measures do you take to protect your facilities, equipment, resources, personnel, and property from damage caused by unauthorized access? In this course, Physical Security, these are questions that we will be answering. You will be learning how to recognize the potential risks of unauthorized access to your business and personnel, and how to counteract these risks by learning the steps to creating a security policy for you and your personnel to implement. We will included demos that will help you better understand the concepts that will be discussed in this course.

Physical Security .............................. 1699_001
Internal Support Systems ..................... 1699_002

Evading Firewalls and Honeypots
Course Number: 1700
Time: 75 Minutes
Number of Quizzes: 3 Quizzes

Evading Firewalls and Honeypots, is the course where we will not only discuss what firewalls and honeypots are, but how attackers get around these preventive programs. You will learn about the different types of firewalls and how they may be evaded. You will also learn what honeypots are and how they are set-up to divert any would be attackers attention. You will be learning how attackers anticipate honeypots and how penetration testing can help you in dealing with these attackers. We have paired this course with several demos that will cover more in-depth the topics that we will be discussing and help you gain a broader understanding of those topics.

Working with Firewalls ....................... 1700_001
Working with Honeypots ..................... 1700_002

Evading IDS
Course Number: 1701
Time: 75 Minutes
Number of Quizzes: 4 Quizzes

Intrusion Detection System (IDS) is a device or software that monitors network activities and system activities. While monitoring, it looks for suspicious activities and security policy violations. In this course Evading IDS we will be discussing the vulnerabilities in an IS, types of IDS, types of evasion, techniques used to evade IDS, IDS tools, and how to carry out penetration testing so you can put a prevention plan in place. We will combine this with an in-depth demo on how to avoid an IDS.

Introduction to IDS ............................. 1701_001
Evading IDS ...................................... 1701_002
Points of Vulnerability in IDS .................. 1701_003
Desynchronization .............................. 1701_004
Intrusion Detection Tools ...................... 1701_005
IDS Evading Tools .............................. 1701_006
Countermeasures .............................. 1701_007

Wireless Types and Vulnerabilities
Course Number: 1696
Time: 75 Minutes
Number of Quizzes: 3 Quizzes

Wireless types, such as WLAN, are also known as Wi-Fi networks and they are susceptible to security lapses that wired networks are exempt from. In this course
you will learn about different wireless types and their vulnerabilities. You will learn about several different tools that will help you take countermeasures against these vulnerabilities. We will complete this course with demos on different tools that we will be discussing.

Test Me: EC-Council
Exam CEHv8 (312-50)
Course Number: 1890
Time: 240 Minutes
Number of Quizzes: 1 Quiz

Test your knowledge and skills through this Test Me: Cisco Exam CCNA Security 640-554 IINS. Prove to yourself, and others, that you are ready for Cisco’s Implementing Cisco IOS Network Security certification exam. You’ll demonstrate your proficiency in the principles, techniques, and tools involved in working with routers, networks, and switches. The instruction period is over; this Test Me provides you with a collection of questions based on the exam domains contained in testing for the actual certification exam. Wrap up your exam preparation with this Test Me pulling questions from our Cisco IOS Network Security course series.

CISPP® 2013 Series

Telecommunications & Network Security 2013
Course Number: 836
Time: 195 Minutes

When it comes to information security, there are a range of concepts, skills, and issues to understand to properly administer network security. The CISSP exam assesses how thorough your knowledge is in the area of information security. Pick up the knowledge needed to prepare for this certification exam. Study the OSI model and layers to understand how communication flows across the network, see how to implement Remote Access, and look at media and LAN topologies like fiber optics, star topology, tree topology, and mesh topology. You will also learn about security elements that will protect the network through firewalls, security protocols, and various security techniques. At the conclusion of this course, you will understand how to implement network security and maintain telecommunications.

OSI Reference Model.............................. 836_001
OSI Layers ........................................... 836_002
Media/LAN Topologies ......................... 836_003
LAN/WAN/Remote Access ..................... 836_004
Remote Access Security ..................... 836_005
Network Devices............................. 836_006
Firewalls........................................ 836_007
Security Protocols and Services ............. 836_008
Security Techniques ......................... 836_009
Common Network Attacks ................... 836_010

Information Security Governance and Risk Management 2013
Course Number: 837
Time: 135 Minutes

The Certified Information Systems Security Professional (CISSP) designation is a recognized international standard for information security certifications. The CISSP series will provide certification candidates with an understanding of crucial security issues and solutions to address them. Start out with an overview of CISSP, its requirements, and the importance of confidentiality, integrity, and availability. You will then learn about security management training by studying information security governance, audit frameworks for compliance, security administration, physical and human risks, legal responsibilities, and risk assessment methodologies. The remainder of the course looks at risk assessment, job policies and training, and security policies.

Introduction........................................ 837_001
Security Management Training ............... 837_002
Risk Assessment................................. 837_003
Security Policy .................................. 837_004
Job Policies and Training ...................... 837_005

Software Development Security 2013
Course Number: 838
Time: 285 Minutes

Attention is given to software development security to deepen your understanding of information security. Topics covered include application issues, storage, development controls, malicious code, and methods of attack. The material you will study can be divided up into different categories: software development issues and storage, software development protection, and software development threats. The discussion on storage focuses on databases, warehouses, virtual memory, information retrieval, knowledge-based systems, and audits. With development controls, the two types focused on are system
development controls and security development controls where you will learn about the isolation architecture, coding controls, and certification standards.

Application Issues................................................. 838_001
Databases and Warehousing.................................. 838_002
Data and Information Storage.............................. 838_003
System Development Controls................................ 838_004
Security Development Controls............................. 838_005
Malicious Code.................................................... 838_006
Methods of Attack................................................ 838_007

Cryptography 2013
Course Number: 839
Time: 105 Minutes

The Certified Information Systems Security Professional (CISSP) designation is a recognized international standard for information security certifications. You will specifically focus on the concept and implementation of cryptography. To solidify your understanding of cryptography, you will look at its history, its uses, and its role in confidentiality, integrity, and authentication. Some concepts associated with cryptography are transposition cipher, steganography, substitution cipher, digital signatures, asymmetric algorithms, and message authentication. You will also learn about the various methods of attack as in brute force, man-in-the-middle, chosen ciphertext, and replay.

History and Goals.................................................. 839_001
Concepts and Methodologies.................................. 839_002
Cryptographic Algorithms................................. 839_003
Cryptographic Practices.................................... 839_004
System Architecture............................................. 839_005
Methods of Attack................................................ 839_006

Security Architecture and Design 2013
Course Number: 840
Time: 135 Minutes

The Certified Information Systems Security Professional (CISSP) designation is a recognized international standard for information security certifications. Obtaining your CISSP certification ensures that you’re trained in information security concepts and skills. Explore the security architecture and design by studying its organization, machine operation, protection mechanisms, and security models. Additionally, you will also learn about security evaluation criteria, common flaws, and security issues in covert channels, the parameter, timing, EMR, and programming.

Organization....................................................... 840_001
Machine Operation.............................................. 840_002
Operating Modes/Protection Mechanisms............... 840_003
Evaluation Criteria............................................ 840_004
Security Models............................................... 840_005
Common Flaws and Security Issues..................... 840_006

Operations Security 2013
Course Number: 841
Time: 120 Minutes

Once a network is set up and configured, it becomes the administrators responsibility to ensure that network operations, or day-to-day activities, are executed correctly and safely. Concentrating on network operations, you will learn about administrative management, operation controls, auditing, monitoring, intrusion detection, threats, and countermeasures. In the auditing and monitoring sections, you will take a closer look at audit procedures, audit reporting, sampling, keystroke monitoring, trend analysis, and failure recognition. Upon course completion, you will understand security concepts and issues concerning operations security in the CBK required for the CISSP exam.

Administrative Management............................... 841_001
Operation Controls............................................. 841_002
Auditing.............................................................. 841_003
Monitoring.......................................................... 841_004
Intrusion Detection............................................. 841_005
Threats and Countermeasures.............................. 841_006

Business Continuity and Disaster Recovery Planning 2013
Course Number: 842
Time: 90 Minutes

When a disaster occurs on a network due to attack or some other issue, network administrators must have a plan for restoring and re-securing the network. Creating a disaster recovery plan involves elements such as an emergency response, backup data, off-site storage, and logistics. Once you’ve create a plan, you have to know how to execute it by training all administrators involved in network security, walking through the checklist, and running scenarios. These are all topics covered in this training. It falls under the umbrella of Business Continuity Planning (BCP) to preserve the network. Additional topics that are encompassed in BCP include ensuring legislative compliance, establishing a planning team, understanding legal and resource requirements, as well as performing a business impact analysis. Maintaining network security is equally preventive measures as well as planning.

BCP Project Scope................................................. 842_001
Business Impact Analysis.......................... 842_002
DRP Planning and Recovery.......................... 842_003
Recovery Plan ......................................... 842_004
Recovery Plan Implementation....................... 842_005

Legal, Regulations, Investigations & Compliance 2013
Course Number: 843
Time: 120 Minutes

Prepare for your CISSP certification by studying laws and regulations on security. Learn about the different types of computer crime as in grudge attacks, financial attacks, military attacks, fun attacks, and hacking. You will also spend time looking at the different categories of law, computer laws, types of incidents and how to respond to them, and the ethics behind information security. You will also find explanations on investigation practices and how evidence is gained. Altogether, your studies will deepen your understanding of how to be compliant, the laws behind security, and lessons learned through some example investigations.

Types of Computer Crime.......................... 843_001
Categories of Law ..................................... 843_002
Computer Laws ....................................... 843_003
Types of Incidents .................................... 843_004
Incident Handling .................................... 843_005
Investigation and Evidence ......................... 843_006
Ethics ..................................................... 843_007

Physical (Environmental) Security 2013
Course Number: 844
Time: 90 Minutes

Deepen your understanding of crucial CISSP security concepts and issues. Focus your attention on physical security by studying physical security threats, facility requirements as in security policies and a critical path analysis, physical security controls, environmental issue, and ways to implement physical security. In the discussion on threats, you will work through Threats 1-12. Additionally, some of the techniques concentrated on for implementing physical security are fire safety, physical access control, administrative controls, egress safety, and detective controls.

Physical Security Threats.......................... 844_001
Facility Requirements .............................. 844_002
Physical Security Controls ......................... 844_003
Environmental Issues ............................. 844_004
Physical Security .................................... 844_005

Access Control 2013
Course Number: 845
Time: 120 Minutes

Concentrate on Access Control. Start with the basics by studying the concepts of least privilege, accountability, and physical, logical, and administrative access. You will also explore the topics of data classification, Access Control techniques, Access Control Implementation, identification, authentication, attack, and monitor Access Control. Some of the topics covered in Access Control techniques are control types and categories, security labels, and Access Control lists. The information detailed will provide certification candidates with the skills and knowledge needed to prepare for the CISSP exam.

Access Control Basics ............................. 845_001
Data Classification .................................. 845_002
Access Control Techniques ....................... 845_003
Access Control Implementation ................. 845_004
Identification and Authentication ............... 845_005
Attack and Monitor ................................ 845_006

Test Me: (ISC)² Exam CISSP
Course Number: 1853
Time: 360 Minutes
Number of Quizzes: 1 Quiz

Test your knowledge and skills through this Test Me: (ISC)² Exam CISSP. Prove to yourself, and others, that you are ready for (ISC)²’s Certified Information Systems Security Professional (CISSP) certification exam. You’ll demonstrate your proficiency in the principles, techniques, and tools involved in securing data that’s collected and distributed within hardware and software systems. The instruction period is over; this Test Me provides you with a collection of questions based on the exam domains contained in testing for the actual certification exam. Wrap up your exam preparation with this Test Me pulling questions from our CISSP course series.
Adobe Courses

Adobe 9 Pro Series
Introduction, Navigation, Acrobat Distiller and Creating PDFs
Course Number: 1157
Time: 105 Minutes
Number of Quizzes: 2 Quizzes

Are you looking for a program that is a PDF editor, document reader, and an authoring tool? Then Adobe's Acrobat 9 Professional offers you those capabilities and more. Start training in this software with an introduction to the Adobe Acrobat family where you will learn the different between Adobe Reader and Adobe Acrobat. Continuing with the basics, you will learn about the interface, bookmarks, and how to navigate through the interface. You will also gain an understanding of what Acrobat Distiller is and the functionality it offers. You will also learn how to create PDFs with the Acrobat Distiller, with PDF Printer, from scanner, or from multiple files.

Introduction.................................1157_001
Understanding the Interface...............1157_002
Acrobat Distiller............................1157_003
Creating PDFs...............................1157_004

PDF Maker, Links, Bookmarks, Acrobat Features and Managing PDFs
Course Number: 1158
Time: 135 Minutes
Number of Quizzes: 2 Quizzes

Learn how to use Adobe's Acrobat 9 Professional to create and manipulate your PDFs by deleting pages, replacing pages, and adding Acrobat features as in headers, footers, backgrounds, and watermarks. You also find demonstrations on how to edit and review PDFs using comments, markup tools, the TouchUp Text tool, and the TouchUp Object tool. Also in this course are instructions for working with the Adobe PDF Maker to add word heading styles, convert heading to bookmarks, and apply preferences. You will also learn about creating hyperlinks, incorporating bookmarks, and previewing initial view settings. With Acrobat 9 Professional, there's no limit to what you can do to and with PDFs.

Adobe PDF Maker ............................1158_001
Links and Bookmarks .......................1158_002
Acrobat Features ............................1158_003
Manipulating PDF Documents...............1158_004
Editing and Reviewing PDFs ..............1158_005

Adobe 9 Professional (Consolidated)
Course Number: 242
Time: 165 Minutes
Number of Quizzes: 6 Quizzes

Adobe's Acrobat 9 Professional is much more than just a document reader. It is a powerful authoring tool that allows users to create and edit multimedia PDF files for interactive use both online and off. LearnSmart will take you from program installation right through to a final, polished presentation. Along the way, expert Chad Chelius provides insight and tips on getting the most from Acrobat 9 Pro. Chapter quizzes along with an assessment and Certificate of Mastery final examine are also provided to test your ability and strengthen your knowledge of course content.

Introduction......................................242_001
Understanding the Interface..................242_002
Acrobat Distiller ..............................242_003
Creating PDFs .................................242_004
Adobe PDF Maker ............................242_005
Links and Bookmarks .......................242_006
Acrobat Features .............................242_007
Manipulating PDF Documents ..............242_008
Editing and Reviewing PDFs ..............242_009

Dreamweaver CS4 Series
Navigation, Planning, Web Design 101, Tables, Text, & Images in Dreamweaver CS4
Course Number: 1087
Time: 225 Minutes
Number of Quizzes: 2 Quizzes

This is an introduction to Adobe Dreamweaver CS4 that explains how to navigate in the Dreamweaver interface, how to plan a Web site, and the basics of Web design. After that overview, you will be instructed on the procedure for modifying different Web page elements particularly tables, text, and images. Dreamweaver offers a number of possibilities when working with tables, text, and images including applying class properties to tables, cleaning up HTML, editing images, creating background images, working with GIF versus JPEG versus PNG. Follow step-by-step examples to get the most out of Adobe Dreamweaver CS4.

Introduction.....................................1087_001
Dreamweaver CS5 Series

HTML Formatting, Multimedia & XHTML in Dreamweaver CS5

If you are looking to get your own home site in order or to obtain Adobe Certified Associate (ACA) credentials for your professional career, this course provides in-depth knowledge of all the tools required for creating fully functional and visually striking Web pages. Specifically, you will explore topics such as how to format objects as HTML, utilize multimedia, and add XHTML. In addition to these topics, you will spend time familiarizing yourself with the Dreamweaver CS5 interface and toolbars, how to plan and prepare a Web site, and the basics of Web design. You will also learn about different types of links, how to create them, and how to incorporate named anchors.

Introduction .................. 765_001
Planning and Preparation ............ 765_002
Web Design Essentials ................. 765_003
Text Formatting and Structure ........ 765_004
Links .................................. 765_005
Working with Images ................... 765_006
XHTML ................................ 765_007

Using Templates, CSS & Tables in Dreamweaver CS5

Begin your preparation for the Adobe Certified Associate (ACA) credentials for your professional career. Walk through how to use templates and find explanations on the benefits of CSS, and watch demonstrations on how to use tables as you work in Dreamweaver CS5. When creating tables, you can also convert a Dreamweaver feature called AP Divs into tables. AP Divs fall under the category of AP elements or layers. Concerning this feature, you will learn how to trace, draw, insert, and modify them through CSS Properties.

Templates .............................. 766_001
CSS Essentials ......................... 766_002
Working with CSS ..................... 766_003

Dreamweaver

CSS, AP Elements, Forms, Site Publishing, & Site Collaboration in Dreamweaver CS4

Course Number: 1089
Time: 195 Minutes
Number of Quizzes: 1 Quiz

Students will explore the function of CSS, how to set up AP elements, and the integration of forms to create functional, attention-grabbing Web sites. CSS or Cascading Style Sheets are important to the presentation of a Web page. In CSS, students will find a presentation on the different selector types, styles that are used, overviews of the Code Navigator, and explains how to attach and edit style sheets. You will also study site publishing procedures and site collaboration. When discussing site collaboration, some of the features covered are indicating design notes, creating HTML reports, and using site workflow reports. Learn about all the features offered in Dreamweaver CS4, so that you can get the most out of it.

Cascading Style Sheets .................... 1089_001
AP Elements ................................ 1089_002

Links, Productivity Tools, Templates, XHTML, Multimedia, & JavaScript in Dreamweaver CS4

Course Number: 1088
Time: 225 Minutes
Number of Quizzes: 2 Quizzes

Deepen your understanding of Dreamweaver through step-by-step examples, so that you can get the most out of Dreamweaver CS4. Learn about creating links using text links, absolute links, image maps, and named anchors; utilizing templates; along with the different capabilities of XHTML and JavaScript. You will also be presented with the different productivity tools used particularly commands, library items, and the find and replace feature; and find explanations on how to incorporate multimedia, such as movie or sound objects, into a Web page.

Links ........................................ 1088_001
Productivity Tools ....................... 1088_002
Templates .................................. 1088_003
XHTML .................................... 1088_004
Multimedia ................................. 1088_005
Javascript .................................. 1088_006

Forms ........................................ 1089_003
Site Publishing ........................... 1089_004
Site Collaboration ....................... 1089_005

LearnSmart - www.learnsmartsystems.com
1-800-418-6789
With Dreamweaver CS6, some features and menus have changed from the CS4 version. Review the different toolbars, menus, panels, and workspaces to acquaint yourself with the CS6 interface. After this introduction, you will dive into the conceptualization of your Website. Define the parameters of your site design by specifying the page elements, storyboard your site, and planning your website. During conceptualization, you should also layout your site in such a way that symmetry, consistency, and usability are upheld. After planning, you can shift your focus to the content where you should focus on different content types like text and files with GIF, JPG, and PNG endings. Other pieces to designing a site are links and the HTML syntax. Learn about all these design elements to create purposeful and picturesque sites.

**CSS Fundamentals, HTML Layouts, Tables and Templates in Dreamweaver CS6**

Course Number: 1219  
Time: 195 Minutes  
Number of Quizzes: 1 Quiz

Increase your skills and knowledge on building Websites that meet your needs and is user friendly. Dreamweaver CS6 helps you achieve that and more. Train in this software, and go over the fundamentals of CSS. You will also learn how to incorporate HTML layouts, and add variety using tables and templates. CSS enables you to specify the look and feel of your site, while HTML layouts cover the actual page layout that everything sits on top of. Learn how to build tables in HTML, apply style rules to them, and import an Excel document. Templates help you get started by containing some predefined elements. Walk through demonstrations on how to create a template, add editable regions, work with the assets panel, and utilize the CSS starter layout.

**Form Objects, Interactivity, Publishing, Managing Websites and Accessibility in Adobe Dreamweaver CS6**

Course Number: 1220  
Time: 195 Minutes  
Number of Quizzes: 2 Quizzes

Consider some additional content elements particularly form objects and interactive objects. Incorporating interactivity onto your site encompasses rollover images, Flash content, and HTML5 videos and audio. You must
learn the process of uploading and downloading for Web publishing, site setup, cloaking, and to connect to remote host. Once your site is created, you need to know how to manage it and have it match accessibility standards. Explore what library items are, how to use Adobe BrowserLab and CSS visual aids, how to edit browser lists, and integrate with Apache Subversion. All of these features can be accessed or worked with through Adobe’s Dreamweaver CS6. Learn how to use this program to its fullest potential to create Websites efficiently.

Form Objects........................................... 1220_001
Interactivity ............................................. 1220_002
Uploading and Downloading ...................... 1220_003
Managing a Website .................................. 1220_004
Accessibility Standards .............................. 1220_005

Fireworks CS4 Series

Navigation, Fills, Strokes, Text, Layers and Symbols in Fireworks CS4
Course Number: 1238
Time: 480 Minutes
Number of Quizzes: 3 Quizzes

Fireworks CS4 has many tools and features to help you create and edit graphics for Web design. Become familiar with the CS4 interface as you tour the toolbox, menus, panels, rulers, and grids. Then dive into the actual capabilities of the program by learning how to work with fills, strokes, text, layers, and symbols. In the section dedicated to layers, train in how to create layers and Web layers, learn how to duplicate layers and objects, as well as delete, organize, and export layers. In working with strokes, you will observe how to use tools like the line tool, redraw path tool, and freeform tool. Going through these topics will have you creating your own custom graphics in no time.

Introduction.......................................... 1238_001
Fills...................................................... 1238_002
Strokes.................................................. 1238_003
Text...................................................... 1238_004
Layers................................................... 1238_005
Symbols............................................... 1238_006

Bitmap Graphics, Prototypes, Optimization, Image Slicing and Exporting in Fireworks CS4
Course Number: 1239
Time: 180 Minutes
Number of Quizzes: 1 Quiz

If you’re looking to create images and design for Web usage without writing code, then Adobe’s Fireworks CS4 is your program of choice. Discover how to manipulate bitmap graphics and images, improve productivity using prototypes, and finalize your project for export as CSS, PDFs, or for Flash. The prototypes section will demonstrate how to create a mock-up, set a page tag line, create a navigation bar, create pages, and create CSS-based layouts. The graphical images you can create using Fireworks CS4’s tools and features are limitless. Explore all of this software’s capabilities.

Bitmap Graphics................................. 1239_001
Productivity ....................................... 1239_002
Optimizing Images............................ 1239_003
Image Slicing..................................... 1239_004
Exporting.......................................... 1239_005

Fireworks CS5 Series

Formatting, Layers & Symbols in Fireworks CS5
Course Number: 768
Time: 150 Minutes
Number of Quizzes: 2 Quizzes

Learn all the fundamentals of Fireworks fused with training examples and interactive learning material from LearnSmart. Start out with an introduction to Fireworks CS5 by exploring how to launch the application, work with panels, open and save files, and use the rules, guides, and grids. You will also learn how to work with vector shapes, fills, and paths, as well as how to incorporate bitmap graphics. Upon completion of this course, you will have gained the knowledge necessary to format an array of objects, to switch layers, and utilize symbols.

Introduction....................................... 768_001
Vector Shapes and Fills ......................... 768_002
Vector Paths....................................... 768_003
Bitmap Graphics.................................. 768_004
Working with Text.............................. 768_005
Working with Layers............................ 768_006
Symbols............................................ 768_007
Flash CS4 Series
Navigation, Drawing Tools, Painting Tools and Modifying Objects in Flash CS4
Course Number: 1240
Time: 165 Minutes
Number of Quizzes: 1 Quiz

There are very few limitations using Adobe Flash CS4. You will start out with an introduction to Flash and the CS4 interface. Go over the basic tasks as in working with workspaces, creating files, managing files, operating in the Stage, access document properties, and drawing. Take an in-depth look at drawing complex objects using drawing and painting tools, and at working with text objects. You will learn how to scale objects, set transparency, use the gradient transform tool, align objects, add hyperlinks, and convert text to shape. Familiarize yourself with the interface and basics of Flash CS4 so that you can go on to create more elaborate and fine-tuned animations.

Working with Flash ............................ 1240_001
Drawing Tools ............................... 1240_002
Painting Tools ............................... 1240_003
Modifying Objects ......................... 1240_004
Working with Text ......................... 1240_005

Layers, Symbols, Animation, Photos, Timeline, Movie Clips, Shape Tweening and Bone Structure in Flash CS4
Course Number: 1241
Time: 195 Minutes
Number of Quizzes: 2 Quizzes

Flash CS4 enables you to create animations easier and with less steps than previous versions of Flash. Learn how to work with layers using features like the lasso tool and layer options, the difference between symbols and instances, and types of animation. Spend time training in creating animations, incorporating photos and movie clips, using the timeline, and shape tweening and bone structure. The Shape Tweening and Bone Structure section demonstrates for you how to create shape tween, work with shape hinting, and how to animate bone structures. Explore all the capabilities and features offered to you through Adobe’s Flash CS4.

Working with Layers ........................ 1241_001
Symbols, Instances, and Animation .... 1241_002
Animation Control .......................... 1241_003
Preview and Publish ...................... 1241_004
Working with Photos ...................... 1241_005
Working with Timeline .................... 1241_006
Movie Clips ................................. 1241_007
Shape Tweening and Bone Structure ... 1241_008

Buttons, ActionScript, Video, Filters and Blend Modes in Flash CS4
Course Number: 1242
Time: 195 Minutes
Number of Quizzes: 2 Quizzes

The topics focused on highlight ActionScript, color effects, video and audio, and buttons. In the buttons section, you will learn about basic buttons, how to animate buttons, animated states, hit states, and hot spots. A majority of the discussions in this course concentrate on ActionScript particularly its basics, the role frame labels play in it, and how to use ActionScript 3.0. A few things that you can do with Action Script 3.0 are adding dynamic text fields and target paths, and creating a variable or function. Study all the intricacies of Flash CS4 to create animations faster.

Buttons ........................................ 1242_001
Basic ActionScript ......................... 1242_002
Frame Labels and ActionScript .......... 1242_003
Video ........................................ 1242_004
Audio ......................................... 1242_005
Filters and Blend Modes ................. 1242_006
ActionScript 3.0 ............................ 1242_007

Templates, Images & Integration in Fireworks CS5
Course Number: 769
Time: 135 Minutes
Number of Quizzes: 2 Quizzes

Fireworks CS5 enables you to create designs for different media platforms. Learn how to work with templates to set up pages, Flash objects, and Web and mobile pages. After the creation process, you will find demonstrations on how to manipulate different objects by slicing, prototyping them, and integrating images and HTML. Altogether, you will have added to your understanding how to effectively use templates, incorporate images, and integrate other objects into Fireworks CS5.

Templates ..................................... 769_001
Saving as a GIF .............................. 769_002
Saving as a JPEG ............................ 769_003
Saving as a PNG ............................. 769_004
Slicing ......................................... 769_005
Prototyping ................................... 769_006
Integration .................................... 769_007
Interaction, Dynamically Load, Conditional Statements, Movie Clips, Calculations and Preloaders in Flash CS4

Course Number: 1243
Time: 225 Minutes
Number of Quizzes: 1 Quiz

You will find presentations on using interactive components and dynamically load components, and conditional statements. Afterwards, you will find demonstrations on how to work with movie clips, implement calculation control by resetting commands and typing up the code, and format dynamic Flash files. To wrap up the course, you will study the navigation system and preloaders, where you’ll look at external loaders, how to troubleshoot errors, preloader components, the Remove Event Listener, and more. Use Adobe’s Flash CS4 software as a tool to create rich and interactive content for personal computers and mobile devices.

Using Interactive Components .................... 1243_001
Dynamically Load Components ..................... 1243_002
Conditional Statements ........................... 1243_003
Working with Movie Clips .......................... 1243_004
Calculation Control ................................. 1243_005
Dynamic Flash Files ................................ 1243_006
Navigation System ................................ 1243_007
Creating Preloader ................................. 1243_008

Flash CS5 Series

Working with Text, Images & Effects in Flash CS5

Course Number: 770
Time: 150 Minutes
Number of Quizzes: 2 Quizzes

Adobe Flash Professional CS5 software has become the industry standard for creating rich and interactive content for personal computers and mobile devices. Find out how to manipulate text and images with effects to create excellent Flash objects.

Introduction ........................................... 770_001
Working with Images ................................. 770_002
Timeline and Deco Drawing Tools ................. 770_003
Working with Text ................................... 770_004
Working with Symbols ............................... 770_005
Tweening Text and Objects ......................... 770_006
Filters, Blending, and Color Effects ............... 770_007
Introduction to ActionScript ....................... 770_008

Flash CS5 (Consolidated)

Course Number: 267
Time: 165 Minutes
Number of Quizzes: 7 Quizzes

Adobe Flash Professional CS5 software has become the industry standard for creating rich and interactive content for personal computers and mobile devices. LearnSmart provides you with video and study material that will help you prepare and pass the Adobe Certified Associate Rich Media Communication exam. Find out how to embed video and audio into your Flash projects to create a striking presence. In-depth topics include color effects, drawing complex objects, ActionScript and publishing options. ACE certified media designer Chad Troftgruben walks you through the tips and tricks needed to become a professional Flash developer.

Introduction ........................................... 267_001
Working with Images ................................. 267_002
Timeline and Deco Drawing Tools ................. 267_003
Working with Drawing Tools, Audio, Commands & Publishing Options in Flash CS5

Course Number: 771  
Time: 155 Minutes  
Number of Quizzes: 1 Quiz

There are very few limitations using Adobe Flash Professional CS5. This course takes an in-depth look at the following topics: drawing complex objects and publishing options.

- Drawing Fundamentals .................................. 771_001
- Drawing Complex Objects .................................. 771_002
- Working with the Library .................................. 771_003
- Animating with Bones .................................. 771_004
- Working with Audio .................................. 771_005
- Scenes, Play Buttons, and Stop Commands... 771_006
- Publishing Options .................................. 771_007
- Preparing for Mobility .................................. 771_008

ActionScript, Components & External Elements in Flash CS5

Course Number: 772  
Time: 135 Minutes  
Number of Quizzes: 2 Quizzes

This course explains the different tools and techniques used to create animations, games, interactive Web sites, and advertisements. Furthermore, it provides an overview of Flash, and the benefits of ActionScript.

- ActionScript and Movie Properties ................. 772_001
- Changing the Mouse Cursor .................. 772_002
- ActionScript Animations .................. 772_003
- Testing Multiple Conditions ................. 772_004
- Working with Components ................. 772_005
- Importing External Elements ................. 772_006
- Using Video in Flash .................. 772_007

Flash CS6 Series

Navigation, Interface, Text, Drawing and Creation Tools in Flash CS6

Course Number: 1244  
Time: 150 Minutes  
Number of Quizzes: 1 Quiz

There are very few limitations with Adobe Flash CS6 to create interactive content. Spend time conceptualizing what you want to create as you collect information, look into producing accessible content, make development decisions, use rich media targets, and set up consistency across platforms. Familiarize yourself with the CS6 interface as you observe how to access the Flash workspace, use templates and the properties panel, delete presets and preferences, and study design principles. Take an in-depth look at drawing complex objects using drawing, creation, and painting tools, and at working with text objects. You will learn how to scale objects, set transparency, use the gradient transform tool, align objects, add hyperlinks, and convert text to shape. Learn how to work with Adobe’s CS6 software to express your creativity.

- Introduction ........................................... 1244_001
- The Flash Interface .................................. 1244_002
- Paths and Text .................................. 1244_003
- Drawing Tools .................................. 1244_004
- More Creation Tools .................................. 1244_005

Symbols, Timeline, Animation, Masks and Layout in Flash CS6

Course Number: 1245  
Time: 195 Minutes  
Number of Quizzes: 1 Quiz

Flash CS6 enables you to create animations easier and with less steps than previous versions of Flash. Learn how to work with layouts as you study snap to pixels, rules, guides, Web pages, headers, buttons, background tweens, and how to animate Web pages. Spend time training in creating animations, incorporating symbols, using the timeline, shape tweening, and using masks. In the timeline section, you will look at layers, frames, button creation, keyframes, and the project panel. You will study additional animation features like the bone tool, how to create an armature, do a joint rotation, use the bind tool and onion skin, and set up frame-by-frame animations. Explore all the capabilities and features offered to you through Adobe’s Flash CS6.

- Symbols ........................................... 1245_001
- Timeline ........................................... 1245_002
- Library ........................................... 1245_003
- Animation ........................................... 1245_004
- Masks ........................................... 1245_005
- Advanced Animation .................................. 1245_006
- Layout ........................................... 1245_007
Illustrator CS4 Series

Navigation, Preferences, Workspaces and Tools in Illustrator CS4

Course Number: 1253
Time: 90 Minutes
Number of Quizzes: 2 Quizzes

How is Illustrator different from Photoshop? They both create images, right? Learn how they differ and other basic information on Illustrator CS4. You’ll look at how to launch Illustrator, create a new document, work with artboards, and navigate in artboards. You will also be introduced to preferences and working in workspaces. The remainder of this course is spent demonstrating path tools like the brush tool and the pen tool, and shape tools such as the ellipse tool, live trace, and gap detection. Illustrator CS4 is offered by Adobe to help you design and edit images for the latest digital formats.

Getting Started .................................. 1253_001
Preferences and Workspaces ............... 1253_002
Shape Tools ...................................... 1253_003
Path Tools ....................................... 1253_004

Objects, Type, Color, Saving and Exporting in Illustrator CS4

Course Number: 1254
Time: 120 Minutes
Number of Quizzes: 1 Quiz

Focus on advanced objects, color, type, and finalizing steps to a project. The Type section concentrates on text specifically how to add type, the different kinds of type, how to use the character and paragraph panels, how to work with text on path, and convert to text outlines. From there, you’ll continue on to study color effects looking at color settings and advanced color settings, process and global colors, and spot color. The finalizing steps are saving, exporting, and preparing a project file for Web. Discover the different saving options, how to create a PDF, save for the Web, and optimize images. All of these capabilities are available to you in Illustrator CS4, where you can create images and graphics that will enhance any project.

Advanced Objects ................................ 1254_001
Type .................................................. 1254_002
Color ............................................... 1254_003
Save, Export, and Web ....................... 1254_004

Illustrator CS5 Series

Interface and Drawing Tools in Illustrator CS5

Course Number: 773
Time: 60 Minutes

Learn all the essentials of Illustrator and how to use the new features of Illustrator CS5. Be introduced to the Illustrator CS5 interface, the tool options available, panels that are used to access Illustrator tools, and drawing in Illustrator. You will learn how to create drawings for your design projects by including objects and using the pen tool, the perspective drawing tool, and the freehand drawing tools.

Learning the Illustrator CS5 Interface .......... 773_001
Introduction to Drawing ....................... 773_002

Typography, Painting & Output Options in Illustrator CS5

Course Number: 774
Time: 75 Minutes
Number of Quizzes: 2 Quizzes

Watch video segments related to dealing with shapes and enhanced tools. Start by watching demonstrations on typography where you will focus on using the paragraph palette, adding type, warping text, using the character palette, and importing text. By the end of this training, you will be well equipped to construct your own distinctive and captivating...
designs that can be incorporated into advertising projects, logo creation, packaging, and branding. To incorporate these designs, you need to know what your output options are in Illustrator. Find out what your export options are, the various print and save options available, how to export as a PDF, and the ways to export sliced images.

Typography................................................. 774_001
Painting with Illustrator............................... 774_002
Illustrator Output Options .............................. 774_003

■ Illustrator CS6 Series

What's Inside
Course Number: 1570
Time: 135 Minutes
Number of Quizzes: 5 Quizzes

This is an introductory course to Adobe Illustrator CS6. As such, you’ll go learn how to navigate and customize the new user interface, as well as manipulate the different artboard options. As a refresher, you will take a few minutes watching how to draw basic objects to build the foundation of your graphics project. These are just some of the tools that will allow you to handle your workload more efficiently and effectively. You’ll also spend time concentrating on the tools unique to Illustrator such as Image Trace, pen and pencil tools, and the perspective grid. In the Image Trace section, you will observe how to convert raster images into editable vector images. All in all, topics covered in this course will also help prepare you for the Graphic Design and Illustration with Adobe Illustrator CS6 (ACA) exam.

The Interface ............................................. 1570_001
New Document.............................................. 1570_002
Artwork ...................................................... 1570_003
Drawing Objects.......................................... 1570_004
Pencil, Pen Tool.......................................... 1570_005
Perspective .................................................. 1570_006
Image Trace .................................................. 1570_007
Symbols ...................................................... 1570_008

Painting and Drawing Tools
Course Number: 1571
Time: 105 Minutes
Number of Quizzes: 5 Quizzes

As you learn about color swatches, opacity, and patterns, you are also taking a closer look at the painting and drawing tools offered in Illustrator CS6. In Illustrator CS6, the tools available to manipulate and create graphics is limitless. Learn how to change elements in a pattern, change colors, manipulate objects opacity, and work with brushes. You will also find demonstrations on how to add a pattern fill to a stroke with ease as you explore the Pattern Maker feature. The topics included make up the second course in the Adobe Illustrator CS6 series. Overall, the purpose of these discussions is to provide you with the skills and knowledge necessary to excel in Illustrator CS6, as well as prepare for the Graphic Design and Illustration with Adobe Illustrator CS6 (ACA) exam.

Color.......................................................... 1571_001
Color Groups.................................................. 1571_002
Paint........................................................... 1571_003
Brushes......................................................... 1571_004
Transparency............................................... 1571_005
Patterns......................................................... 1571_006

Enhancing Your Artwork
Course Number: 1572
Time: 90 Minutes
Number of Quizzes: 4 Quizzes

This is the final course in the Graphic Design and Illustration with Adobe Illustrator CS6 (ACA) exam series. The topics covered focus on the more advanced features offered by Illustrator to help you create projects for print, video, Web, or other Adobe applications. Enhance your artwork by adding text and transformation effects, as well as applying vector- or raster-based effects. Along with effects and enhancement tools, you will go through demonstrations on how to save your project in different file formats. Everything you learn will enable you to create vector assets that can be used to tackle any design project.

How to Use Type Tools ................................. 1572_001
Free Transform Tools .................................... 1572_002
Special Effects.............................................. 1572_003
Optimize Graphics ....................................... 1572_004
Common Workflow and Design Practices.... 1572_005

■ InDesign CS4 Series

Navigation, CS4
Applications, Workspaces, Layout and Objects in InDesign CS4
Course Number: 1255
Time: 210 Minutes
Number of Quizzes: 1 Quiz

Adobe’s InDesign CS4 offers a range of tools for layout, design, and creation. Create images and graphics for all your publication needs. Get acquainted with the tools, menus, and options offered in the CS4 interface and its new features. Along with understanding where everything
InDesign CS4 Series

Learning Color in InDesign CS4

You will also study the history of InDesign and how its purpose fits in with other Adobe products. You will also spend time observing how to lay out a document’s presets, master pages, internal margins, global and document preferences, and grids. As well as discover how to transform and reuse objects by manipulating the object’s frame and using various tools such as the polygon tool and the free transform tool. Use these tools and techniques to customize your project.

Getting to Know InDesign CS4 .......... 1255_001
Roles of CS4 Applications .................. 1255_002
Workspaces ...................................... 1255_003
Navigating InDesign ....................... 1255_004
Laying Out a Document ..................... 1255_005
Transforming and Reusing Objects ........ 1255_006

Color, Spot Color, Type Basics, Styles and Graphics in InDesign CS4

Use color effects and styles to deliver professional and quality projects. You will find descriptions on how to clear imported formatting, create and apply styles, edit different types of styles, and use GREP. Solidify your understanding of colors as you learn about the distinction between named colors and unnamed colors, how to use spot colors, edit and create swatches, incorporate gradient options, and work with mixed inks. There is also time dedicated to exploring the basics of type and how to work with graphics. In the graphics section, you will go through demonstrations of how to place graphics in existing frames, scale graphics, fit icons, use the links panel, and how to update modified images. Use InDesign CS4 for all of your graphical and visual creations.

Understanding Color ...................... 1256_001
Working with Spot Color ................... 1256_002
Type Basics ..................................... 1256_003
Working with Type ........................... 1256_004
Styles ............................................ 1256_005
Working with Graphics .................... 1256_006

Libraries, Layers, Effects, Tables, Automation, Exporting and Printing in InDesign CS4

Course Number: 1257
Time: 300 Minutes
Number of Quizzes: 2 Quizzes

Brush up on your skills in working with layers, effects, tables, and type to enhance any project. In the discussion on advanced type, you will look at mapping styles, text variables, text wrap, hyphenation, and conditional text. There are also segments discussing snippets, automation, and finalizing a document. Explore the automation section to learn how to set up data merge, create merged documents, insert placeholders, export XML tags, and map tags to style. For finalizing a document, you will learn how to prepare for print, and learn how to export as a PDF, XFL, SWF file, or XHTML file. You will also find demonstrations on ways to work with long documents, so that they’re easier to navigate. With InDesign, you can create documents containing compelling, precise graphics just as you imagined it.

Libraries and Snippets .................... 1257_001
Layers .......................................... 1257_002
Effects .......................................... 1257_003
Working with Tables ....................... 1257_004
Advanced Type ............................... 1257_005
Automation ................................... 1257_006
Export Formats .............................. 1257_007
Long Documents ........................... 1257_008
Preparing for Print ....................... 1257_009

InDesign CS5 Series

Navigation, Layout & Objects in InDesign CS

Course Number: 775
Time: 135 Minutes
Number of Quizzes: 2 Quizzes

Adobe’s InDesign CS5 offers a range of tools for layout, design, and creation. Gain the valuable skills needed to manipulate the look and feel of design elements with insider tips and tricks. Before you can begin designing anything, you must be familiar with the tools, menus, and options offered through the InDesign CS5 interface and its new features. Along with understanding where everything is located, it would be to your advantage to know how to lay out a document’s presets, master pages, internal margins, global and document preferences, and grids.

Introduction .................................. 775_001
InDesign Interface Tour ..................... 775_002
InDesign CS6 Series

InDesign Interface, Navigation, Documents and Objects in InDesign CS6
Course Number: 1258
Time: 105 Minutes
Number of Quizzes: 2 Quizzes

Are you looking to learn more about Adobe’s InDesign CS6 and its capabilities? Then start by learning about the new features, the role of CS6 application, how to use the InDesign interface, and explore the Adobe Creative Cloud. Get to know the tools, menus, and navigation options offered in the CS6 interface. You will find out how to set up a document based on units, increments, and margins using document properties and presets. You will also spend time observing how to transform and reuse objects by manipulating the object using various tools such as the shape tools and the free transform tool. Use these tools and techniques to customize your publishing project.

Introduction ........................................... 1258_001
Understanding the InDesign Interface ........ 1258_002
Navigating Your Documents ................. 1258_003
Setting Up a Document ......................... 1258_004
Drawing Objects ................................ 1258_005
Transforming Objects ....................... 1258_006

Color, Spot Color, Type, Layouts, Graphics, Styles and Books in InDesign CS6
Course Number: 1259
Time: 150 Minutes
Number of Quizzes: 2 Quizzes

Use InDesign CS6 to create the page designs you’ve always imagined. Go over document and alternate layouts as you look at how to set up a document, create text frames, how to use the Story Editor, liquid page rules, the Content Placer, and the links panel. Solidify your understanding of colors as you learn about applying colors, how to use spot colors, edit and create swatches, incorporate gradient swatch, and work with Adobe Kuler. There is also time dedicated to exploring the basics of type, the process of creating a book, and how to work with graphics. In the graphics section, you will go through demonstrations of...
this overview, students will learn about the application frame, how to incorporate images, and the variety of selection tools available. Additional topics covered include managing basic and advanced layers. This course illustrates the processes involved in preparing images for Web, print, and video.

Application Frame.................................................. 1090_001
Working with Images.......................................... 1090_002
Selection Tools..................................................... 1090_003
Layers............................................................... 1090_004
Advanced Layers................................................. 1090_005

Images, Filters, Text, Styles, Photo Retouching, & Actions in Photoshop CS4
Course Number: 1091
Time: 180 Minutes
Number of Quizzes: 1 Quiz

Find illustrations on the processes of preparing images for Web, print, and video using Adobe Photoshop CS4. A large portion of this course concentrates on working with filters, text, styles, and actions. Other topics covered in this course include how to make image adjustments and the tools utilized in photo retouching such as the clone stamp tool, the spot healing brush tool, the red eye tool, and Gaussian blur. Learn how to work with these tools and understand how to work with filters, text, styles, and actions will aid in producing crisp, quality images using Photoshop CS4.

Image Adjustments............................................. 1091_001
Working with Filters.......................................... 1091_002
Working with Text.............................................. 1091_003
Working with Styles............................................ 1091_004
Photo Retouching.............................................. 1091_005
Working with Actions........................................... 1091_006

Web and Vector Tools, Bridge, Camera Raw, File Formats, Color, & Output in Photoshop CS4
Course Number: 1092
Time: 180 Minutes
Number of Quizzes: 2 Quizzes

Becoming proficient in Photoshop is one of today’s most sought-after skills. There are descriptions on a number of features used to adjust and alter images. Some of the features are Web and vector tools, bridge and bridge

Layers, Effects, Transparency, Tables, Data Merge, Interactive Documents and Printing in InDesign CS6
Course Number: 1260
Time: 150 Minutes
Number of Quizzes: 2 Quizzes

Enhance your project with layers, effects, transparency, advanced type, and tables. In the discussion on advanced type, you will look at mapping styles, text variables, text wrap, hyphenation, and conditional text. There are also segments discussing snippets, automation, and finalizing a document. Explore the topics included in the Data Merge and interactive documents section as you learn about placeholders, single and multiple data merge, swift files, hyperlinks, and clipping paths. There is also a section on finalizing a document, where you concentrate on how to prepare for print, how to publish an e-book, and export tags.

Layers............................................................. 1260_001
Effects and Transparency .................................... 1260_002
Tables ............................................................... 1260_003
Advanced Type ................................................. 1260_004
Data Merge ....................................................... 1260_005
Interactive Documents ....................................... 1260_006
Preparing for Print .......................................... 1260_007
EPUB ............................................................... 1260_008

PhotoShop CS4 Series
Navigation, Application Frame, Images, Selection Tools, & Layers in Photoshop CS4
Course Number: 1090
Time: 180 Minutes
Number of Quizzes: 2 Quizzes

This training is well-suited for professionals who wish to further their knowledge of Photoshop CS4. Spend time

how to place graphics, scale images, add corner effects, use the links panel, and how to use frame fitting options.

Working with Color............................................. 1259_001
Working with Spot Color ..................................... 1259_002
Working with Type.............................................. 1259_003
Document Layout ............................................... 1259_004
Working with Graphics ....................................... 1259_005
Styles ............................................................... 1259_006
Alternate Layouts ............................................. 1259_007
Creating a Book ................................................. 1259_008

Standard Courses

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layout, camera raw, and color gamut. Camera Raw is a unique feature in Photoshop that this course explores by looking at its relationship to DNG, its metadata, its presets and tools. Concentrate on file format options provided in Photoshop CS4 and the process of preparing images for Web, print, and video output.

Web and Vector Tools
Bridge
Camera Raw
File Formats
Managing Color
Preparing for Output

PhotoShop CS5 Series
Navigating, Selection Tools & Working with Layers in Photoshop CS5

Course Number: 778
Time: 165 Minutes
Number of Quizzes: 2 Quizzes

Photoshop CS5 offers a wide range of abilities for working with pictures and creating images. Be introduced to Adobe Flash CS5 and how to execute some basic tasks. You will explore the CS5 interface by looking at the tools and panels offered along with the toolbar features. Before you can do any advanced formatting, or any formatting at all, you need to know how to select objects using the geometric selection tools, save and recall, the lasso tool, the quick selection tool, or selection refinement tools. Building on that basic knowledge, you can then discover how to work with layers and correct image problems like dullness, color imbalance, and shadows in Photoshop CS5.

Introduction
CS5 Interface Overview
Making Selections
Correcting Basic Image Problems
Working with Layers

Image Formatting, Painting Tools, & Working with Type in Photoshop CS5

Course Number: 779
Time: 285 Minutes
Number of Quizzes: 4 Quizzes

PhotoShop has long been the industry standard for creating high quality, professional graphics. Prepare images for Web, print, and video. Some of the media formats you will work with are Smart objects, Web images, 3D objects, and automation. You will also learn how to manage your media more efficiently than ever before when working in Photoshop CS5. There is also a section dedicated to working with colors by troubleshooting color management issues, trying digital painting, understanding how to use Gamut color, using swatches and color libraries, working with camera raw objects, and knowing how to manage color settings. Walking through these different tools and techniques will enable you to get the most out of Adobe Photoshop CS5.

Resolution, Color, and File Formats
Digital Painting
Working with Vector Tools
Working with Masks and Channels
Working with Type
Smart Objects and Filters
Working with 3D Objects
Slicing for Web Export
Automation with Photoshop
Advanced Color
Working with Camera Raw

PhotoShop CS6 Series
Interface, Image Types and Resolution, Adobe Bridge, Adobe Camera Raw, Image Composition and Color Modes

Course Number: 1357
Time: 270 Minutes
Number of Quizzes: 3 Quizzes
Number of Labs: 5 Labs

With Photoshop CS6, you have all the tools and features at your disposal to create images exactly as you envision them. Start out familiarizing yourself with the CS6 interface and observing how to navigate through files. Then you’ll dive into image manipulation where you’ll concentrate on image types, rasterization and aliasing, importing and working with images in Adobe Bridge, and changing image composition by cropping an image,
using the straightening tool, and the perspective tool. This training also covers color modes and document properties. You can alter the resolution, dimensions, scale, and canvas size of your document. As you alter an image in a document, you’ll need to save your document. There are a variety of file formats for working with print, and saving for the Web and video and to optimize files.

Introduction ........................................ 1357_001
The Photoshop Interface .......................... 1357_002
Navigating Files in Photoshop ................. 1357_003
Image Types and Resolution ................. 1357_004
Creating a Scanned Image ....................... 1357_005
Working with Adobe Bridge .................. 1357_006
Adobe Camera Raw ............................... 1357_007
Documenting Properties ...................... 1357_008
Changing Image Composition .............. 1357_009
Understanding Color Modes in Photoshop 1357_010
File Formats ....................................... 1357_011

Type, Layers, Nondestructive and Destructive Editing, Tools, Color Management and Adjustments

Course Number: 1359
Time: 195 Minutes
Number of Quizzes: 4 Quizzes
Number of Labs: 7 Labs

For this training, you’ll cover working with type and layers, editing capabilities and tools, color management, and advanced adjustments. The editing capabilities that you will see demonstrated are nondestructive and destructive editing as you adjust layers, user layer masks and smart filters, blend modes, opacity, and fill. You will learn how to use shape, pen, pencil, and brush tools to alter the appearance of images and add in extra details. In the advanced adjustments section, you will look at the lens correction filter, chromatic aberration, adjustment layers, and the layer mask. Photoshop CS6 offers you a range of options to work with images and create graphics to share your vision.

Working with Type .............................. 1359_001
Working with Layers .............................. 1359_002
Nondestructive and Destructive Editing...... 1359_003
The Shape, Pen, and Pencil Tools .......... 1359_004
The Brush Tools .................................. 1359_005
Color Management .............................. 1359_006
Adjusting Tone and Color .................. 1359_007
Advanced Adjustments ....................... 1359_008

Shapes, Paths, Selections, Layer Masks, Retouching Tools, Content-Aware Tools and Blur Filters

Course Number: 1360
Time: 255 Minutes
Number of Quizzes: 3 Quizzes
Number of Labs: 7 Labs

Use Photoshop CS6 to its fullest potential as you learn how to create graphics and modify images. In this training, you will find demonstrations of selections and selection tools, layer masks, content-aware and retouching tools, and vector-based shapes and paths. You will also discover how to distort and transform images, use blur filters, composite multiple images, and go through actions, droplet, and batch processing. In the actions, droplet, and batch processing section, you will learn how to record actions, and the steps involved in droplets and batch processing. The tools you will look at within this training are the red eye tool, clone stamp tool, healing brush tools, sharpen and blur tools, smudge tools, patch tool, and content-aware tool. Any modification that you would want to do to an image, Photoshop has the tool to help you do it.

Using the Selection Tools ..................... 1360_001
Vector-Based Shapes and Paths ............. 1360_002
Working with Selections ..................... 1360_003
Working with Layer Masks ................... 1360_004
Photoshop Retouching Tools ............... 1360_005
Content-Aware Tools .......................... 1360_006
Distorting and Transforming Images ...... 1360_007
New Blur Filters in Photoshop CS6 ........ 1360_008
Compositing Multiple Images ............. 1360_009
Actions, Droplets, and Batch Processing .... 1360_010

Premiere Pro CS5 Series

Preproduction: Concept, Script, Storyboarding & Schedule in Premiere Pro CS5

Course Number: 780
Time: 75 Minutes
Number of Quizzes: 1 Quiz

Before you can create a video, you have to develop a story and sequence how it transition from scene to scene. Walk through the details concerning the concepts behind properly scripting a video, creating a storyboard, and scheduling a video shoot. Most of the details of a video are hammered out during conceptualization where you establish the premise, work on character development, and solidify the story, plot, and conflict. But conceptualization is also where you want to dedicate time to protecting your
ideas through copyrights, image releases, and the Fair Use doctrine. Having worked through your video concept, you can begin working on the scene structure, selecting shot types, and creating the shooting script and budget.

Preproduction: Concept.................. 780_001
Preproduction: Script Writing .............. 780_002
Preproduction: Storyboarding .............. 780_003
Preproduction: Shot List and Schedule ...... 780_004

Production: Equipment, Camera, Lighting, Audio & Crew in Premiere Pro CS5
Course Number: 781
Time: 165 Minutes
Number of Quizzes: 3 Quizzes

Create video communication masterpieces with the help of Adobe Premiere Pro CS5 training. In order for a shoot to be successful, you need the appropriate equipment, lighting, and crew. The production equipment includes cameras, lighting, microphones, and cabling. Learn the best practices for incorporating and using them, so that your shoot goes off without a glitch. You will look at techniques such as camera operation, camera movement, lighting principles, audio, and shooting fundamentals as in continuity, screen direction, jump cuts, and cuts-only editing. The last segment helps you through the process of selecting a production crew, and identifying their job roles.

Production Equipment: Cameras............. 781_001
Production Equipment: Lighting............. 781_002
Production Equipment: Microphones ....... 781_003
Production Equipment: Cabling ............. 781_004
Production: Camera Operation ............... 781_005
Production: Camera Movement ............... 781_006
Production: Shooting Fundamentals ......... 781_007
Production: Lighting Principles ............. 781_008
Production: Audio .................................. 781_009
Production Crew.................................. 781_010

Post-Production: Managing Files & Finalizing Projects in Premiere Pro CS5
Course Number: 782
Time: 345 Minutes
Number of Quizzes: 5 Quizzes

There are some things you just don’t know how to do, and then there are things you wouldn’t even think of doing. Give yourself an opportunity to cover both of those areas by learning what to do and what not to do in post-production. Start by exploring the Premiere Pro software and familiarizing yourself with its layout and menus. You will wrap up by looking at few demonstrations in the post-production phase of creating a slideshow, creating an interview, and creating an action sequence. Adobe Premiere Pro CS5 is the perfect platform for users who wish to take their videographer skills to the next level of success. In this course on Premiere Pro CS5, you will learn how to manage video files and finalize the project.

Post-Production: Getting Started............. 782_001
Post-Production: File Management......... 782_002
Post-Production: Creating a Rough Cut....... 782_003
Post-Production: Titles, Transitions ......... 782_004
Post-Production: Effects.......................... 782_005
Post-Production: Audio Editing ............. 782_006
Post-Production: Finalizing the Project ....... 782_007
Lab 1: Creating a Slideshow ................. 782_008
Lab 2: Creating an Interview............... 782_009
Lab 3: Creating an Action Sequence ......... 782_010

Premiere Pro
CS6 Series
Understanding the Production Process in Premiere Pro CS6
Course Number: 972
Time: 90 Minutes

Walk through video production from beginning to end looking at the conceptualization, preproduction, production, and postproduction processes. You will start by learning about legal issues that could come up during video production, while providing you with the details to avoid those issues. With legal issues covered, you will then concentrate on the conceptualization process, which includes all the planning elements. A project’s success hinges on the quality of the planning. Following is preproduction, which includes writing the treatment, synopsis, premise, and script. In the production section, you will study how to create your production plan and your storyboard; while in the postproduction process, you will focus on editing techniques and how to finalize your creation. Produce videos at a professional level with the help of Premiere Pro CS6.

Intellectual Property.......................... 972_001
Project Concept............................... 972_002
Production Process........................... 972_003
Preproduction................................. 972_004
Production..................................... 972_005
Postproduction............................... 972_006
Getting Started in Premiere Pro CS6
Course Number: 973
Time: 30 Minutes
Number of Quizzes: 3 Quizzes

Familiarize yourself with Premiere Pro CS6 by exploring its interface. You will look at its layout, required specifications, the workspace area, and the provided toolbar panels. As an introduction to this program's capabilities, you will find a demonstration of how to compile a slideshow, including how to customize your slideshow, adjust keyframes, import video, and format sequence settings. Learning these basics will assist you in creating a video that fits your specifications. With Premiere Pro there's no need to go anywhere else for your video production and editing needs.

Understanding the Interface ......................... 973_001
Building a Slideshow ............................... 973_002

Editing Projects in Premiere Pro CS6
Course Number: 974
Time: 90 Minutes
Number of Quizzes: 4 Quizzes

Adobe Premiere Pro CS6 provides you with a number of tools and features to edit and customize video projects. Train in compositing basics as in clip adjustments, inserting and overwriting edits, and trimming in Source Monitor. You will learn how to work with Warp Stabilizer and Nested Sequences to create videos that have more than just a person talking. The main way that you will explore these features and tools is through a demonstration based on an interview that is transformed into a documentary. One of the biggest editing differences between interviews and documentaries is the integration of additional footage and text effects like lower thirds to make the documentary more dynamic than a single person interview. Learn how to add those important elements and how to incorporate them in your project to make them better.

Compositing Basics................................. 974_001
The Interview ........................................ 974_002
Nested Sequences and Titles ....................... 974_003
Lower Thirds ................................-------- 974_004

Enhancing and Completing Projects in Premiere Pro CS6
Course Number: 975
Time: 90 Minutes
Number of Quizzes: 4 Quizzes

You will learn how to enhance your footage through the use of audio and visual enhancements such as Picture in Picture. Why say 1,000 things with one, when you can say two thousand with two pictures? You can also enhance visuals through the use of Chroma and Ultra Keys. Alongside visual enhancements, you will cover descriptions of how to add audio narration and adjust audio basics to enhance the audio. Find out what it takes to finalize your project for review and presentation. You will go through the techniques used in cuts-only editing and the steps taken to export a video to prepare it for presentation. Altogether, you will explore the capabilities offered to you through Adobe Premiere Pro CS6 to smoothly and cleanly edit and enhance a product.

Picture in Picture................................. 975_001
Adding Audio....................................... 975_002
Chroma Key ......................................... 975_003
Cuts-Only Editing ................................. 975_004
Export Media ....................................... 975_005

Basic Computing Skills

IC3 Global Standard 4 (GS4) Series
Hardware, Ergonomics, OS Basics, File Management, Software Basics and Troubleshooting
Course Number: 1247
Time: 165 Minutes
Number of Labs: 3 Labs

The goal of IC3 certification is making a statement that you are digitally literate concerning Internet and computing. Start your journey towards certification by learning about the exam, terminology used, types of devices covered, and the different between software and hardware. Other topics looked at include hardware basics, ergonomics, operating systems, software concepts, and file management and manipulation. In the file management and manipulation section, you will discover details about directories and folders, file management tasks, formatting data within files, file naming conventions, and common file extensions. Through this training, you will gain the knowledge, skills, and techniques needed to prepare for the IC3 Global Standard 4 exam.

Introduction ........................................ 1247_001
Getting Started ................................. 1247_002
Hardware Basics .................................. 1247_003
Ergonomics ......................................... 1247_004
Operating Systems ............................ 1247_005
File Management and Manipulation .......... 1247_006
Software Concepts .......................... 1247_007
Troubleshooting .............................. 1247_008

**Word Processing, Spreadsheets, Databases, Presentation, Graphics and Video Software**

Course Number: 1248
Time: 105 Minutes
Number of Labs: 26 Labs

In the discussion on word processing, you’ll find out how to set page layout, format paragraphs, add headers and footers, incorporate styles and lists, and ways to edit and print. For spreadsheets, you learn the basics of spreadsheets, how to format them, use formulas, and add tables and other visual elements. You will also spend time studying databases, presentation software, graphics software, video software, and audio software. The graphics software section describes to you the basics of graphics software, identifies image formats, defines graphics terminology, explains how to create images and manipulate premade images, and makes you aware of the legalities associated with copyrighted materials. IC3 Global Standard 4 assesses your knowledge of the most up-to-date digital literacy requirements. All the topics covered in this training will help prepare you to sit for the IC3 certification exam.

Word Processing ............................... 1248_001
Spreadsheets ................................... 1248_002
Databases ........................................... 1248_003
Presentation Software ......................... 1248_004
Graphics Software .............................. 1248_005
Video Software .................................. 1248_006
Audio Software ................................... 1248_007

**Web Basics, Networks, Connections, Security, Browsers, Digital Responsibilities and Internet Research**

Course Number: 1249
Time: 135 Minutes

Are you looking to prepare for IC3’s Global Standard 4 exam? Then go through these topics: Web basics, collaborating projects, networking concepts, Internet essentials, and digital concepts. The digital concepts section discusses digital communication as in email, audiovisual communications, telepresence, and real-time communication; explores digital citizenship by looking at digital communities and social networking safe practices; and explains digital responsibilities associated with social media, text messages, online games, piracy, and copyrights. For Internet essentials, you will cover online security, Internet research, browsers, and connections.

Web Basics ........................................ 1249_001
Collaborating Projects ......................... 1249_002
Understanding Networks ..................... 1249_003
The OSI Model ................................... 1249_004
Connections and Security ..................... 1249_005
Browsers .......................................... 1249_006
Digital Citizenship ............................. 1249_007
Digital Responsibilities ....................... 1249_008
Digital Communication ....................... 1249_009
Internet Research .............................. 1249_010
Online Security .................................. 1249_011

**Cisco**

**CCNA (640-802) Series**

**Networking Concepts, OSI Model, TCP/IP, LANs and Conversions**

Course Number: 1168
Time: 135 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 8 Labs

This is an introductory course to the CCNA 640-802 certification exam that introduces you to the exam objectives, icons, and symbols. You will also go over computer networking concepts, the OSI model, TCP/IP Transport and Applications, modern Ethernet LANs, the Ethernet frame structure, and conversions. In the OSI model and TCP/IP section includes data encapsulation, the evolution of TCP/IP, mapping TCP/IP to OSI, protocol characteristics, resolving the MAC address, and network protocols. The section dedicated to the Ethernet details the Ethernet evolution, LAN standards, Ethernet UTP cabling, communicating with the LAN, and frame structure. All these topics encompass a range of networking fundamentals and skills.

Computer Networking Concepts ............ 1168_001
Overview of OSI Model and TCP/IP ........ 1168_002
TCP/IP Transport and Applications ........ 1168_003
Modern Ethernet LANs ....................... 1168_004
Ethernet Frame Structure .................... 1168_005
Conversions .................................... 1168_006
WANs, Transmission Protocols, Topologies and Shared Networking
Course Number: 1169
Time: 135 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 6 Labs

To continue deepening your understanding of networking, study WANs, transmission protocols, shared networking, topologies, and how to connect to a network. In looking at WANs, you will concentrate on a network’s need for WANs, WAN configuration, the difference between WAN and LAN, WAN technologies and devices, link options, PPP, and the role of the physical layer. Study the layout of networks in the topology section by exploring the different types of topology including extended star topology and partial-mesh topology. Learn how to connect to a network through different connections and cables through a UTP implementation, loops, or spanning tree. When it comes to preparing for the CCNA 640-802 exam, it is crucial to have a solid understanding of networking concepts such as WANs, network topologies, and shared networking.

Wide Area Networks ......................... 1169_001
WAN Concepts ................................ 1169_002
Transmission Protocols ..................... 1169_003
WAN Configuration ............................ 1169_004
Connecting to a Network ................. 1169_005
Topologies ..................................... 1169_006
Shared Networking ............................ 1169_007

Network Communications, IP Addressing, Subnetting, IP Routing Concepts, Static IP Routing and Dynamic Routing
Course Number: 1170
Time: 135 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 5 Labs

Start your training with network communications, where you will explore the transport layer, protocol characteristics, port numbers, flow control, TCP/IP applications, and URLs. Transition from there to the topic of IP addressing and subnetting. Next you’ll focus on router basics, IP routing concepts, static IP routing and dynamic routing. In IP routing concepts, you’ll cover topics such as route determination, the routing table, table data, static and dynamic routing, and administrative distance. The CCNA 640-802 certification exam covers a wide range of networking concepts. So take time to break up your preparation into sections. Upon completion of this course, you’ll have a solid understanding of routers and routing concepts.

Communications ............................... 1170_001
IP Addressing .................................. 1170_002
Subnetting .................................... 1170_003
Routers ........................................ 1170_004
IP Routing Concepts .......................... 1170_005
Static IP Routing .............................. 1170_006
Dynamic Routing ............................. 1170_007

RIP, IOS, Interface Commands and Troubleshooting IP Routing
Course Number: 1171
Time: 135 Minutes
Number of Quizzes: 3 Quizzes
Number of Labs: 4 Labs

Learn about the RIP protocol and how to troubleshoot it. Your training continues as you look closer at the relationship between routers and the IOS going through the internal components involved, the boot process, console connection, and the 3800 router boot process. Move onto the largest portion of the course dedicated to different commands specifically IOS access commands, basic IOS commands, IOS maintenance commands, ID commands, and interface commands. Upon conclusion of this course, you will be able to troubleshoot RIP and IP routing, as well as execute different tasks using commands. Accumulate all this knowledge and skills to prepare for the CCNA 640-802 exam.

RIP Protocol .................................... 1171_001
Troubleshooting RIP .......................... 1171_002
Routers and IOS ............................... 1171_003
IOS Access Commands ...................... 1171_004
Basic IOS Commands ........................ 1171_005
IOS Maintenance Commands ............... 1171_006
ID and Interface Commands ............... 1171_007
Troubleshooting IP Routing ............... 1171_008

Ethernet Switches, Catalyst Switches, WLANs and Network Security
Course Number: 1172
Time: 180 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 2 Labs

Deepen your understanding of LAN devices, switches, WLANs, and network security. LAN devices focuses on Layer 2 switching, the MAC address table, Layer 3 routing, Layer 3 switching, and multilayer switching. Switches concentrates on Ethernet switch configuration, catalyst switches, and Ethernet switch troubleshooting. In the WLANs section, you will go over the fundamentals of Wireless LANs particularly WLAN concepts, standards, the 802.11 family protocols, how to deploy WLANs, and
Standard Courses

working with unified wireless network elements. Prepare yourself for the wireless and switch portion of the CCNA 640-802 certification exam.

LAN Devices....................................... 1172_001
Ethernet Switch Configuration........... 1172_002
Catalyst Switches ......................... 1172_003
Ethernet Switch Troubleshooting ...... 1172_004
Fundamentals of Wireless LAN ......... 1172_005
Wireless LAN Security ..................... 1172_006
Wireless LAN Configurations .......... 1172_007
Network Environment Management ... 1172_008
Network Security .............................. 1172_009

VLANs, VLAN Trunking, VTP and Implementing Switch Security
Course Number: 1173
Time: 150 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 4 Labs

VLANs allow for added connectivity on a LAN. Learn about VLAN usage, segmentation, router options, VLAN campus design, VLAN trunking protocol, how to configure and verify VLANs. Continuing on the topic of the VLAN trunking protocol, walk through presentations on how to configure VLAN trunking, and configure, verify, and troubleshoot VTP. Wrap up the course with discussions on implementing switch security where you will see how to ensure access VLANs are active, work with trunks and VLAN forwarding, troubleshoot the data plane, and implement, configure, troubleshoot, and verify port security. All in all, you studies will further your preparation for the CCNA 640-802 certification exam.

Introduction .................................. 1173_001
VLAN and Trunking ......................... 1173_002
VLAN Trunking Protocol ................... 1173_003
Configuring and Verifying VLANs ...... 1173_004
Configuring VLAN Trunking .......... 1173_005
Configuring and Verifying VTP ........ 1173_006
Troubleshooting VTP ..................... 1173_007
Implementing Switch Security .......... 1173_008

STP, PVST+, VLSM, Route Summarization, IPv6 and IP Address Conflicts
Course Number: 1174
Time: 135 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 2 Labs

STP, PVST+, VLSM? What are they referring to? STP is the abbreviation for Spanning Tree Protocol, which will aid you in preventing loops in your network topology. Some of the important things you should know about STP are its connection with RSTP, the enhancements like PortFast and EtherChannel, and how it effects PVST+, or Per-VLAN Spanning Tree+. From there, you will go on to talk about VSLM and its relationship to route summarization. In addition to router summarization, there are different types of summarization covered like manual route summarization and auto summarization. The remainder of the course is dedicated to IPv6 concentrating on running it, its technological requirements like the routing protocols and NAT-PT usage, and troubleshooting it. Concentrating on these topics will aid you in your preparation for the CCNA 640-802 certification exam.

Spanning Tree Protocol Enhancements......... 1174_001
Rapid STP ................................................ 1174_002
Per-VLAN Spanning Tree Plus .......... 1174_003
VSLM and Route Summarization ........ 1174_004
Manual Route Summarization .......... 1174_005
Auto summarization ......................... 1174_006
Running IPv6 ........................................ 1174_007
Technological Requirements for IPv6..... 1174_008
Resolving IP Addressing Problems ....... 1174_009

Routing Protocols, OSPF, EIGRP, Troubleshooting Routing and Basic Router Security
Course Number: 1175
Time: 120 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 2 Labs

The CCNA 640-802 certification exam covers a range of topics including routing protocols, OSPF, and EIGRP. To prepare for those topics, familiarize yourself with the different types of routing protocols, IGP routing protocols, how to configure and authenticate OSPF, how to troubleshoot reverse route problems and forward route problems, and the different ways of configuring basic router security through logging, NTP, and User LAN security. For the certification exam, you also need to understand how to verify connectivity using various commands as in the ping command and traceroute command. To solidify
your knowledge of Open Shortest Path First, you will also explore how to troubleshoot the OSPF interface. Each of these topics will contribute to rounding out your understanding of networking.

Resolving IP Addressing Problems......... 1175_001
Routing Protocols........................................ 1175_002
Open Shortest Path First.......................... 1175_003
Enhancing EIGRP ........................................... 1175_004
Verifying Connectivity ............................... 1175_005
Troubleshooting Routing......................... 1175_006

**ACLs, NAT, Frame Relay, PPP, VPN and Resolving WAN Problems**

Course Number: 1176
Time: 135 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 2 Labs

ACLs refer to Access Control Lists, which are used to identify a user’s access rights. Learn about this security feature by going through presentations on filtering logic, the difference between standard and extended IP ACLs, how to configure ACLs to deny and permit, the process of creating and assigning ACLs, the ways to monitor and edit ACL configuration using named IP access lists and sequence numbers, and how to troubleshoot access lists. Spend some time learning about NAT or Network Address Translation, the fundamentals of frame relay including configuring and verifying frame relay and configuring the encapsulation, and virtual private networks. There are also details on Point-to-Point protocol and WAN implementation issues particularly frame relay WAN problems. Altogether, these topics will help you in preparing for Cisco’s CCNA 640-802 certification exam.

Access Control Lists ............................. 1176_001
Configuring ACLs ........................................ 1176_002
Monitoring ACL Configuration ..................... 1176_003
Access List Troubleshooting ....................... 1176_004
Network Address Translation ...................... 1176_005
Fundamentals of Frame Relay .................... 1176_006
Point-to-Point Protocol .............................. 1176_007
Virtual Private Networks .......................... 1176_008
WAN Implementation Issues .................... 1176_009

**CCNA Security (640-553 IINS) Series**

**Security Threats, Mitigation Methods and Router Security Features**

Course Number: 1177
Time: 210 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 6 Labs

Become familiar with security concepts by learning about security threats, mitigation methods, Cisco self-defending networks, and router security features. Some of the router security features are based on the 800 ISR series, 1800 ISR series, 2800 ISR series, and the 3800 ISR series covering things like the Syslog Configuration Tool and log entry time stamps. You will also spend time going through presentations on how to lock down routers through SDM. And see how to install, launch, and configure SDM to utilize it for lockdown. All these topics will help you in preparing for Cisco’s CCNA Security certification exam.

Security Threats............................................. 1177_001
Mitigation Methods ....................................... 1177_002
Cisco Self-Defending Networks .................... 1177_003
Router Security Features ............................. 1177_004
Locking Down Routers ................................. 1177_005

**ACLs, Secure Device Management and Implementing AAA**

Course Number: 1178
Time: 180 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 4 Labs

You will focus on three topics: ACLs, secure device management, and AAA. ACLs refer to Access Control Lists, which are used to identify a user’s access rights. Learn about this security feature by going through presentations on building and configuring ACLs, blocking a network, IP spoofing filter, and creating IP filters. In the secure device management section, you will go over how to set passwords, configure password encryption, and configure multiple privilege. From there, shift your attention to AAA discussions. Deepen your understanding of AAA by looking at credential types, authentication methods, implementing AAA, and creating local users. Knowing how to execute different tasks concerning ACLs, AAA, and secure device management are essential to preparing for the 640-553 (retired) IINS certification exam.

Understanding ACLs ................................. 1178_001
Configuring ACLs ....................................... 1178_002
Standard Courses

Secure Device Management.......................... 1178_003
Understanding AAA..................................... 1178_004
Implementing AAA....................................... 1178_005

Mitigating Layer 2
Attacks, Firewalls, IPS,
VPN Technologies and IPSec
Course Number: 1179
Time: 240 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 2 Labs

Cisco’s CCNA Security exam (640-553 IINS retired) assesses your knowledge of security within Cisco networks. Some of the topics covered within the exam objectives are mitigating Layer 2 attacks, understanding firewalls, the details of VPN technologies, and understanding IPSec. Some of the technologies covered are those responsible for symmetric encryption, asymmetric encryption, those associated with public key infrastructure, and simple encryption. Within this course, you will also cover the Intrusion Prevention System, which will then branch into a discussion on how to enable IOS IPS. Gain an in-depth understanding of network security.

Mitigating Layer 2 Attacks......................... 1179_001
Understanding Firewalls.............................. 1179_002
Implementing IOS Firewalls........................ 1179_003
Intrusion Prevention System...................... 1179_004
Enabling IOS IPS...................................... 1179_005
VPN Technologies...................................... 1179_006
Understanding IPSec................................. 1179_007

CCNA Voice
(640-460 IIUC) Series
Traditional Telephony,
PSTN, Number and Dialing
Plans, Call Routing and VoIP
Course Number: 1180
Time: 135 Minutes
Number of Quizzes: 2 Quizzes

Begin your introduction to Cisco’s CCNA Voice exam (640-460 IIUC retired) by getting an overview of telephony where you will look at its history, what it is, and how voice is converted to signal and back to speech again. Look at how communication occurs across the PSTN, while learning about its components and features. Connected with telephony are numbering and dialing plans that are used to assign telephone numbers. From there, you will shift your attention to call routing and Voice over IP. In the VoIP section, you will study VoIP packetization for voice conversion, and the different VoIP protocols as in TCP, RTP, RTCP, SCCP, SIP, and NAT.

Traditional Telephony.............................. 1180_001
PSTN Components................................. 1180_002
PSTN Features....................................... 1180_003
Numbering/Dialing Plans......................... 1180_004
Call Routing.......................................... 1180_005
VoIP Packetization................................. 1180_006
VoIP Protocols....................................... 1180_007

Codecs, UC, DSPs, Analog
and Digital Ports, Contact
Centers and Voice Gateways
Course Number: 1181
Time: 120 Minutes
Number of Quizzes: 1 Quiz

Explore the role of codecs, UC devices, and Contact Centers in telephony. You will also go through an overview of unified communications studying applications used in unified communications, how the OSI model plays a role in unified communications, and the devices such as endpoint devices, 2620 router series, add-on modules, and networking technologies. In implementing telephony, you also need to know about voice ports specifically the analog and digital types, digital signal processors, and voice gateways. Topics encompassed under the digital signal processors section include its functions, transcoding, media termination points, DSP farms, configuring DSP parameters, and verifying DSP configuration. With these topics, you will be on your way to preparing for the CCNA Voice exam (640-460 IIUC retired).

Codecs.............................................. 1181_001
Unified Communications Overview........ 1181_002
UC Devices.......................................... 1181_003
Digital Signal Processors...................... 1181_004
Analog Voice Ports.............................. 1181_005
Digital Voice Ports.............................. 1181_006

Dial-Peers, VLANs
in VoIP, PoE and QoS
Course Number: 1182
Time: 120 Minutes
Number of Quizzes: 2 Quizzes

A packet network is made up of different components. You’ll focus on one of those components — dial peers - looking at what it is, where it falls within the packet network, its role involving how calls are processed, how to enable voice ports, configure dial-peers, and monitor call tracking and history. The following topics you will
cover are VLANs in VoIP networks, Power over Ethernet, and QoS. Quality of Service, or QoS, umbrellas a number of discussion including how to deal with convergences, voice packet and VoIP quality requirements, protocols such as 802.1p/Q, QoS setup for switchports, class-map configuration, and creating class-map policies. QoS along with dial-peers, PoEs, and VLANs are major topics covered in the 640-460 IIUC (retired) certification exam. So be sure to learn all the skills and knowledge associated with these topics to become a Cisco Certified Network Associate for Cisco voice technologies.

Understanding Dial-Peers .......................... 1182_001
Configuring Voice Dial-Peers ...................... 1182_002
VLANs in VoIP Networks .......................... 1182_003
Understanding and Configuring PoE ............. 1182_004
VoIP and Quality .................................. 1182_005
Quality of Service Protocols ...................... 1182_006
Configuring QoS .................................. 1182_007

Gatekeepers, CallManager Express and Legacy Integration
Course Number: 1183
Time: 75 Minutes

Prepare for the CCNA Voice certification exam 640-460 IIUC (retired). You will need a solid understanding of voice networking. Start by learning more about the role of gatekeepers inside a voice network by going through presentations on zones, types of gatekeepers, gatekeeper signaling, zone configuration, setting zone prefixes, establishing gateway to gatekeeper connections, and configuring the interface for H.323. In addition to understanding and configuring gatekeepers, you will also train in the CallManager Express and legacy integration. The section focused on legacy integration goes over the private branch exchange, PBX integration methods, fax pass-through, and fax relay.

Understanding Gatekeepers .......................... 1183_001
Configuring Gatekeepers ........................... 1183_002
CallManager Express ............................... 1183_003
Legacy Integration ................................. 1183_004

IP-to-IP, Video over IP, VoIP Performance and Troubleshooting
Course Number: 1184
Time: 120 Minutes

Concentrating on VoIPs and video over IPs, you will look at managing VoIP phones, establishing IP-to-IP gateways, monitoring VoIP performance, and different troubleshooting solutions. Managing VoIP Phones starts out with installing the IP phone, and then goes on to walking through the phone boot process, configuring DHCP, TFTP, and NTP. Learn about IP-to-IP gateways and how to configure them by focusing on the delivery, acceptable formats, IP protocols, signal resolution, and bandwidth. In the troubleshooting section, you will study troubleshooting VoIP networks using different commands such as port commands and the ping command, and troubleshooting Cisco Voice hardware. Covering these topics in-depth will aid you in your preparation for the CCNA Security exam (640-460 IIUC retired).

Managing VoIP Phones .............................. 1184_001
IP-to-IP Gateways ................................. 1184_002
Configuring IP-to-IP Gateways ................. 1184_003
Video over IP ..................................... 1184_004
Troubleshooting VoIP Networks ............... 1184_005
Troubleshooting Cisco Voice Hardware ....... 1184_006
VoIP Performance Monitoring .................. 1184_007

CCNA Voice (640-461 ICOMM v8.0) Series

Telephony Principles, PSTN, Numbering Systems, Protocols and Codec Basics
Course Number: 1185
Time: 135 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 3 Labs

Continue your pursuit of CCNA Voice certification as you train in the objectives of the second CCNA Voice exam (640-461 ICOMM v.8.0). To begin, you will go over the reasons why VoIP matters, the objectives of the ICOMM v.8.0 exam, and telephony training. From there, you will review telephony principles including the human voice, early voice technologies, human speech, the human ear, traditional telephones, and an overview of telephone companies. After that, you will train in PSTN components, numbering systems focusing on dialing plans and digit manipulation, packetization, signaling protocols, and codec basics. In the codecs section, you will learn about what a codec is, its relationship to Cisco machines, how to select a codec, and the complexity of codecs. Develop your fundamental understanding of voice administration.

Introduction ........................................ 1185_001
Telephony Principles ............................. 1185_002
PSTN Components ............................... 1185_003
Numbering Systems ............................. 1185_004
Packetization ........................................... 1185_005
Supporting Protocols .................................. 1185_006
Signaling Protocols ...................................... 1185_007
Codec Basics ............................................. 1185_008

Unified Communications, DSP, Analog and Digital Connections, Contact Centers and Voice Gateways
Course Number: 1186
Time: 120 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 2 Labs

Having established your understanding of telephony basics, strengthen your understanding of Unified Communications, Digital Signal Processors, connections specifically digital and analog connections, Contact Centers, and Voice Gateways. As an introduction to Digital Signal Processors, you are provided with details on devices associated with telephony such as endpoints, softphones, networking technologies, and infrastructure devices. Then for DSPs, you will concentrate on their purpose, functions, and how to create DSP farms. All of these topics are important to know in your preparation for the CCNA Voice exam (640-461 ICOMM v.8.0).

UC Overview ........................................... 1186_001
Devices .................................................. 1186_002
DSP Resources .......................................... 1186_003
Analog Connections .................................... 1186_004
Digital Connections .................................... 1186_005
Contact Centers ....................................... 1186_006
Voice Gateways ....................................... 1186_007

Dial-Peers, VLANs in VoIP, PoE, QoS, Voice Gatekeepers and Cisco Call Managers
Course Number: 1187
Time: 120 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 2 Labs

Learn about dial-peers, the role of Voice gatekeepers and Cisco Call Managers, the usage of VLANs in VoIP, as well as the function of QoS and PoE. You are provided with presentations on dial-peers to understand what they are, explore the commands used with them, go through call processing and call legs, and find dial-peer directions. After dial-peers, you will study VLANs looking specifically at VLAN tagging, VLAN trunking, and managing VLANs. Then take a look at Voice gatekeepers and Cisco Call Managers as you find explanations on the different types of gatekeepers, gatekeeper signaling, CUCME device restrictions and installation, and dynamic zone prefix.

Upon completion of this course, you will have a thorough understanding of these topics, which will aid in preparing for CCNA’s Voice exam (640-461 ICOMM v.8.0).

Understanding Dial-Peers ................................ 1187_001
VLANs in VoIP Networks ............................. 1187_002
VoIP and PoE .......................................... 1187_003
QoS in Voice Networks ............................... 1187_004
QoS Protocols ......................................... 1187_005
Voice Gatekeepers .................................... 1187_006
Cisco Call Managers .................................. 1187_007

User Accounts, IP Phones, Endpoints, Calling Privileges and Maintaining CUCM
Course Number: 1188
Time: 105 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 4 Labs

With the CUCME installed, you can now learn how to create users in it; and from there, configure end user properties. These two tasks are associated with user accounts. You will also focus on IP phones, endpoints, calling privileges, configuring features, and maintaining CUCM. In the calling privileges section, go through details on calling privileges, CoS configuration components, partitions, time-of-day routing, scheduling, CMCs, and PLAR. And then, the presentations on maintaining CUCM highlight CDR reports, how to access them in the CUCM, and how to set up system backups. In order to prepare for the CCNA Voice exam (640-461 ICOMM v.8.0), you must know the skills and knowledge underlining these topics.

User Accounts ........................................ 1188_001
IP Phones ............................................. 1188_002
Endpoints ............................................. 1188_003
Calling Privileges .................................... 1188_004
Configuring Features ................................ 1188_005
Maintaining CUCM .................................. 1188_006

PSTN, Cisco Voice Messaging and Unity Express, Managing Presence, VoIP Security and Troubleshooting
Course Number: 1189
Time: 90 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 2 Labs

Cover how to support users, how to manage presence, voice messaging, VoIP security, and how to troubleshoot VoIP. In the voice messaging section, you will find explanations on the relationship between voice messaging and Cisco unity,
the types of Unity Express hardware and features used, and how to install and administer Unity. Then for VoIP security, you will look at security problems, attack points, hacking examples, perimeter and connection security, and security monitoring. CCNA Voice exam (640-461 ICOMM v.8.0) covers a range of topics concerning voice administration. In preparation for the exam, concentrate on troubleshooting VoIP, VoIP security, how to support users, and voice messaging.

Supporting Users........................................... 1189_001
Voice Messaging and Cisco Unity ............. 1189_002
Understanding and Managing Presence........ 1189_003
Troubleshooting VoIP..................................... 1189_004
VoIP Security................................................ 1189_005

CCNA Wireless (640-721 IUWNE) Series

Wireless Technologies, Regulatory Agencies and Standards, RF, Antennas, Cabling and Topologies

Course Number: 1190
Time: 105 Minutes
Number of Quizzes: 1 Quiz

Explore how wireless communications open the door for remote interactions. You will go through the history and progress of wireless communications as you look at the earliest wireless signals used, the benefits of wireless, and wireless technologies such as infrared, Bluetooth, zigbee, RFID, WiMAX, cordless phones, and Wi-Fi. As with anything that is as expansive as wireless communications, there are regulations and standards set in place by organizations like the IEEE, IETF, and Wi-Fi Alliance. Additionally, you will focus on the fundamentals of radio frequency, antennas, cabling, physical layers, and topologies. Prepare for the CCNA Wireless (640-721 IUWNE) exam.

Wireless Communications.............................. 1190_001
Wireless Technologies.................................. 1190_002
Regulatory Agencies and Standards........... 1190_003
RF Fundamentals ....................................... 1190_004
Antennas and Cabling................................. 1190_005
Physical Layers and Topologies.................. 1190_006

802.11, Authentication and Association, Hardware, WLAN Controllers and Configuring Apps

Course Number: 1191
Time: 150 Minutes
Number of Quizzes: 2 Quizzes

The CCNA Wireless (640-721 IUWNE) exam assesses your knowledge of wireless administration. Prepare for this certification exam by training in 802.11, authentication, wireless LAN controllers, access points, and association. The topics covered concerning 802.11 include 802.11 network address, 802.11 frames, and 802.11 infrastructure solutions. In the wireless LAN controllers section, you will concentrate on controller-based access points, HREAP, SBCS, the AP Manager interface, and administering the wireless LAN controller. Each of these topics will aid in rounding out your understanding of wireless communications.

802.11 Network Address................................. 1191_001
Authentication and Association................ 1191_002
802.11 Frames ............................................. 1191_003
802.11 Infrastructure Solution .................... 1191_004
Infrastructure and Endpoint Hardware...... 1191_005
Understanding Wireless LAN Controllers ... 1191_006
Configuring APs at the CLI......................... 1191_007
Configuring APs in the GUI....................... 1191_008

Roaming Wireless Networks, OS and Cisco Clients, WLAN Vulnerabilities and Security

Course Number: 1192
Time: 90 Minutes
Number of Quizzes: 1 Quiz

You will look at roaming wireless networks defined through the OSI model, intra-controller roaming, and mobility groups. From there, you will study OS and Cisco clients, wireless LAN vulnerabilities, and wireless security components. The wireless security components covered include Wi-Fi protected setup, encryption, PCI compliance, HIPAA compliance, WIPS, captive portals, and VPNs. In the wireless LAN vulnerabilities section, you will find presentations on eavesdropping, rogue access points, encryption cracking, DoS, hijacking, and legacy security. Covering these topics in-depth will aid you in your preparation for the CCNA Wireless exam (640-721 IUWNE).

Roaming Wireless Networks......................... 1192_001
Configuring OS Clients............................. 1192_002
802.11i, EAP, Encryption Methods, Secure Clients and Weak Security Tools

Course Number: 1193
Time: 105 Minutes
Number of Quizzes: 1 Quiz

Study 802.11i, EAP types, encryption methods, secure clients, and weak security tools like WEP cracking tools, MAC filtering, and short WPA passphrases. The section on encryption methods identifies different encryption types such as simple encryption, symmetric encryption, and Public Key Infrastructure. This section also contains an overview of AES and RC4, and introduction to WPA and WPA2, as well as presentations on VPNS. Another topic emphasized in this course is 802.11i. For this topic, you will go over the basics of 802.11i, its components, how to install an 802.11i infrastructure, and its relationship to TKIP, CCMP, RSNA, and transitional security. Concentrating on these topics will aid you in your preparation for the CCNA 640-721 IUWNE certification exam.

802.11i ................................................. 1193_001
EAP Types Explained ............................... 1193_002
Encryption Methods ............................. 1193_003
802.11i Infrastructure Installation .......... 1193_004
Configuring Secure Clients .................... 1193_005
Weak Security Tools ............................. 1193_006

WCS, Site Survey, WCS and WLC Troubleshooting, Spectrum and Protocol Analyzers

Course Number: 1194
Time: 105 Minutes
Number of Quizzes: 2 Quizzes

Take your time when going through these topics to prepare for the CCNA Wireless certification exam (640-721 IUWNE). You will learn the skills, knowledge, and considerations associated with WCS, site surveys, and Spectrum and Protocol Analyzers. There is also a section dedicated to common wireless LAN problems connected to system throughput, multipath, hidden node, channel interference, and the receiver sensitivity. In the discussion on site surveys, you will look at site survey kits and their contents, the phases of site survey, the requirements associated with them, how to document the process and the results, and other features. Train in these topics to prepare for the 640-721 IUWNE exam.

WCS and Navigator .............................. 1194_001
Site Survey Kits .................................. 1194_002
Performing Site Surveys ....................... 1194_003
WCS and WLC Troubleshooting ............ 1194_004
Common Wireless LAN Problems .......... 1194_005
Using Spectrum and Protocol Analyzers ... 1194_006

Cisco Certified Network Professional (CCNP) Series

Introduction to CCNP Certification

Course Number: 754
Time: 30 Minutes
Number of Labs: 1 Lab

CCNP is the next level of certification following CCNA certification. In preparation for this exam, candidates must understand what is required of them to become CCNP certified, which for some means knowing how to bridge the gap between a CCNA certificate to CCNP certification. You will find these details and additional considerations regarding the CCNP. You can explore the Cisco-offered certification track options available along with an overview of the SWITCH (642-813), ROUTE (642-902), and TSHOOT (642-832) exams. After walking you through the layout of Cisco certification, you will begin training in how to build a lab. Make sure you know which Cisco certification path is best for you and your career.

Introduction ....................................... 754_001

Routing and Switching Basics

Course Number: 755
Time: 180 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 2 Labs

Routing and switching is the basis of the CCNA certification. Take a closer look at the different Cisco hardware components, including ports, routers, and switches; and deepen your understanding of their functions. You will train in routing and switching basics along with how to initially configure routers and switches. There’s also time dedicated to demonstrating how to execute IOS commands and learning different IOS tips and tricks. Build your foundational knowledge of routers and switches in preparation of your CCNP certification.

Cisco Hardware Fundamentals ............... 755_001
In discussing switch security, you are looking at general concepts that will specifically train in port security and switch security. There are also sections dedicated to layer 2 security solutions where you will explore layer 2 attacks, port-based authentication, DHCP spoofing, and ways to plan security for layer 2.

Layer 2 Security Solutions .......................... 757_001
Configuring Port Security .......................... 757_002
General Switch Security ............................. 757_003
Troubleshooting Switch Security .................... 757_004

IPv4/IPv6 Overview
Course Number: 758
Time: 150 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 4 Labs

There are different configurations and operations associated with IP addressing. IP addresses allow for communication to occur across the network. There are two kinds - IPv4 and IPv6. To be successful in obtaining your CCNP, you need to have a thorough understanding of IP addressing, which is the focus of this course. Upon completing this course, you will be able to distinguish between IPv4 and IPv6, know their functionality, how to configure them, and how to troubleshoot them. Also included in the discussion on IP addresses is layer 3 switching. Concerning this topic, you will learn about its interfaces, its requirements, its benefits, how to document it, and configure it.

IP Overview.............................................. 758_001
IPv4 Functionality..................................... 758_002
Layer 3 Switching Overview....................... 758_003
Layer 3 Switching Configuration................... 758_004
IPv6 Functionality.................................... 758_005
Planning for IPv6 ...................................... 758_006
Configuring IPv6 ...................................... 758_007
IPv6 and IPv4 Interoperation ....................... 758_008
Troubleshooting IPv4 and IPv6..................... 758_009

High Availability IP Services
Course Number: 759
Time: 75 Minutes
Number of Quizzes: 1 Quiz

Network infrastructures require some redundancy because high availability is achieved through it. Look at the different components, configurations, and settings implemented for high availability. You will also walk through troubleshooting solutions to address high availability issues. Start out with an introduction to understanding high availability where you learn about client redundancy.

Network infrastructures require some redundancy because high availability is achieved through it. Look at the different components, configurations, and settings implemented for high availability. You will also walk through troubleshooting solutions to address high availability issues. Start out with an introduction to understanding high availability where you learn about client redundancy.
needs, resiliency, switch port redundancy, the switch supervisor engine, and service level agreements. With those high availability basics established, you can then go on to plan switch high availability with the appropriate tools, protocols, and operations. Assess your knowledge of high availability with the CCNP certification exam offered by Cisco.

Understanding High Availability .................... 759_001
Planning Switch High Availability .................. 759_002
First Hop Redundancy ............................. 759_003
Troubleshooting High Availability .................. 759_004

**Introduction to Wireless LANs**
Course Number: 760
Time: 105 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 1 Lab

This course focuses on one subject: wireless LANs. Specifically, you will look at the Cisco hardware utilized, how wireless LANs integrates on a network, the wireless standards, and how to troubleshoot wireless issues. In the discussion on integrating wireless LANs, you will cover the topics of MAC and PHY, bits and bytes, frames and packets, SDUs and PDUs, frames, and infrastructure models. You can expect to find wireless concepts on the CCNP certification exam. So take some time to prepare yourself by solidifying your understanding of wireless concepts.

Wireless LAN Standards ............................ 760_001
Wireless LAN Topologies ............................ 760_002
Wireless LAN Hardware ............................ 760_003
Integrating Wireless LANs .......................... 760_004
Troubleshooting Wireless LANs .................... 760_005

**VoIP and Video Technologies**
Course Number: 761
Time: 120 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 2 Labs

Voice over IP developed from PSTNs allowing for voice communications across IP networks. You are provided with an overview of Voice over IP. To begin understanding VoIPs, you will learn about PSTNs, or public switched telephone networks, which form an infrastructure for public telecommunication, and the anatomy of a call. From there, you will find discussions on VoIP hardware, explore the role of Quality of Service (QoS) in VoIPs, and VoIP Solutions. Having gone through the concepts behind VoIP, you will then walk through how to implement and troubleshoot VoIP, along with how to allow for the video format across the IP network. Upon completing this course, these concepts will help you in your preparation for the CCNP certification exam.

Understanding VoIP ................................ 761_001
VoIP Hardware .................................. 761_002
VoIP and QoS .................................... 761_003
Cisco VoIP Solutions ............................. 761_004
Implementing VoIP ............................... 761_005
Troubleshooting VoIP ............................. 761_006
Implementing Video ............................... 761_007

**Interior Gateway Protocols and Static Routing**
Course Number: 762
Time: 150 Minutes
Number of Labs: 4 Labs

There are different types of protocols used to establish communications between routers. Two main types are OSPF and EIGRP, which have differing strengths and weaknesses and serve a particular function. For each protocol, you will delve into understanding, planning, configuring, and troubleshooting it. Alongside OSPF and EIGRP, you will study routing redistribution by looking at what it is, how to plan, configure, verify, troubleshoot, and document it. Overall, you are provided with a high level overview of routing protocols. Having gained an understanding of these new skills and concepts, you will be preparing for your CCNP certification exam.

Routing Protocols ................................. 762_001
Understanding OSPF .............................. 762_002
Configuring and Troubleshooting OSPF ....... 762_003
Understanding EIGRP ............................. 762_004
Planning for EIGRP ............................... 762_005
Configuring EIGRP ............................... 762_006
Troubleshooting EIGRP ........................... 762_007
Routing Redistribution ............................ 762_008

**Exterior Gateway Protocols**
Course Number: 763
Time: 75 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 2 Labs

Find explanations on a routing protocol called the Exterior Gateway Protocol. In the discussion on EGP, you will walk through the different routing types, the need for EGP, autonomous systems, the difference between IGP and EGP, and EGP's role in a demilitarized zone. The topics covered include how an EGP functions and the benefits of
eBGP, a more recent protocol. You will discover how to plan, configure, and troubleshoot eBGP. Prepare for your CCNP certification exam.

EGP Overview ........................................... 763_001
Introducing eBGP ..................................... 763_002
Planning for eBGP .................................... 763_003
Configuring eBGP ..................................... 763_004
Troubleshooting eBGP .................................. 763_005

Advanced IP Services and Router Security
Course Number: 764
Time: 165 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 4 Labs

Not sure what topics to focus on to prepare yourself for the CCNP? You can expect to find some questions on advanced IP services and router security. There are several services that an IOS router can run on a network. You will look at what those services are, how they function, how to configure them, and maintain them. There is also time dedicated to studying environmental and inventory information, and updating the IOS and the Boot Configuration Path. Begin the discussion on router security by exploring TCP, access control lists, protocol IDs, and denying IP addresses. After that you’ll look at AAA security, which includes presentations on credential types, the RADIUS server, user directories, TACACS+, and AAA implementation on the network.

IOS Router Services .................................. 764_001
NAT and PAT ............................................ 764_002
Supporting Branch Offices ......................... 764_003
Layer 3 Patch Control ................................ 764_004
Network Monitoring ................................... 764_005
Routing/Switch Maintenance ....................... 764_006
Router Security ........................................ 764_007
AAA Security .......................................... 764_008

CIW

CIW Database Design Specialist Series
Relationships,
Database Languages and Dictionaries, Database Planning and Normalization

Course Number: 1201
Time: 150 Minutes
Number of Quizzes: 1 Quiz

Build your fundamental understanding of database specialization by starting with the basics including overviews of flat file and relational databases. In the relational database section, you will concentrate on its history, application components, different types, and how to work with tables and entity relationships specifically looking at relationship degrees, binary relationships, relational integrity, foreign key constraint actions, and data integrity. In this course, you will also learn about database languages and dictionaries, database planning including the conceptual design phase, and normalization techniques. The CIW Database Design Specialist certification (1D0-541) exam assesses your knowledge of these topics. Prepare for this exam.

Introduction to Databases ......................... 1201_001
Relational Database Fundamentals ............. 1201_002
Relationships .......................................... 1201_003
Database Languages and Dictionaries ....... 1201_004
Database Planning .................................... 1201_005
Conceptual Design Phase ......................... 1201_006
Normalization Techniques Part I ............... 1201_007
Normalization Techniques Part II .............. 1201_008

Logical and Physical Database Design and Considerations
Course Number: 1202
Time: 60 Minutes
Number of Quizzes: 1 Quiz

You will focus on two topics: logical database design and physical database design. In the section on logical database design, you will look at the logical data model, resolving M:N relationships, working with complex and recursive relationships, removing redundant relationships, creating and validating the logical model, and creating an enterprise data model. While for the physical database design discussions, you will cover database management system, go through demonstrations of the DDL, learn about specific constraints such as enterprise, column-level,
and foreign key constraints, and how to use secondary indexes. Branching from that discussion is a section dedicated to physical database design considerations. Prepare for the CIW Database Design Specialist (1D0-451) certification exam.

Logical Database Design ....................... 1202_001
Physical Database Design ..................... 1202_002
Physical Database Design Considerations ... 1202_003

SQL, Inserting Data, Filtering, Sorting, DCL, RA, Composite Joins and Transactions
Course Number: 1203
Time: 195 Minutes
Number of Quizzes: 1 Quiz

Deepen your understanding of what tasks databases can execute by looking at its data manipulation capabilities, its filtering and sorting options, the integration of select statements, the roles of relational algebra and composite joins. You will also learn about structured query language and data control language, database security and security techniques, and database transactions. In the transactions section, you will go over transaction control, ACID properties, different types of reads, phantoms, serializability, concurrency control methods, and more. By focusing on these topics, you are preparing yourself to sit for the CIW Database Design Specialist (1D0-451) certification exam.

Introduction to SQL ......................... 1203_001
Insert, Delete, and Update Data ............. 1203_002
Working with Select Statements .......... 1203_003
Filtering with Comparison Operators ...... 1203_004
Filtering with LIKE ......................... 1203_005
Sorting Result Sets ......................... 1203_006
Data Control Language ..................... 1203_007
Relational Algebra ......................... 1203_008
Composite Joins ......................... 1203_009
Transactions .......................... 1203_010
Database Security ....................... 1203_011

CIW Server Administrator
(1D0-450) Series

Introduction, Hardware, OS, Network Configuration, & User Management for the CIW Server
Course Number: 1056
Time: 90 Minutes

Find illustrations on user management concepts while looking at user access levels, user authentication, and user accounts. Take time to discover the hardware and operating system requirements and their progression history. You will also reinforce your knowledge of network configuration for bandwidth/network cards, TCP/IP, IP addresses using various tools. Overall, this is an introductory course that discusses the basics that server administrators need to be successful. Upon completion, you will have gained necessary information to prepare to pass the CIW 1D0-450 Server Administrator exam.

Introduction to Internet Systems .......... 1056_001
Hardware and OSs ......................... 1056_002
OS Installation .............................. 1056_003
Network Configuration ...................... 1056_004
User Management .......................... 1056_005

Account Management, User Permissions, & DNS for the CIW Server Administrator
Course Number: 1057
Time: 135 Minutes

Server administrators will learn how to configure DNS services and properly manage accounts. The information presented on account management encompasses the Windows NT domain and groups, user management in Linux accounts, management commands, user permissions and rights, and how to assign user permissions. The DNS section thoroughly dives into Linux DNS servers, Windows DNS servers, and DNS clients. The information contained within this course prepares you to pass the CIW 1D0-450 Server Administrator exam.

Windows Account Management .......... 1057_001
Linux Account Management .............. 1057_002
User Permissions ......................... 1057_003
Assign User Permissions .................. 1057_004
DNS ................................ 1057_005
Linux DNS Servers ....................... 1057_006
Windows DNS Servers .................... 1057_007
DNS Clients ............................ 1057_008
Standard Courses

SMB Networking, Samba, IIS, Apache Servers, & Common Gateway Interface for the CIW Server Administrator

Course Number: 1058
Time: 120 Minutes

This video training is a preparatory course for the CIW 1D0-450 Server Administrator exam. You will be familiarized with SMB Networking; Samba components, configuration, and tools associated with it; and IIS management. You will also be provided with detailed information on the Apache server, instructions on how to configure it through the directory directive, file directive, and location directive, along with an introduction to the Common Gateway Interface (CGI). Server administrators need to understand the distinct roles of Samba versus IIS versus Apache, and this course clearly makes that distinction for administrators.

SMB Networking .............................................. 1058_001
Samba.......................................................... 1058_002
Manage Samba Users..................................... 1058_003
IIS Servers ..................................................... 1058_004
Apache Servers.............................................. 1058_005
Apache Directory Configuration....................... 1058_006
CGI.............................................................. 1058_007

Virtual Servers, SSL, Streaming Media Servers, Email Servers, & FTP Servers for the CIW Server Administrator

Course Number: 1059
Time: 120 Minutes

Explore a number of server types that allow various services to be offered on the network. Primary attention is given to virtual servers and the role of multiple host sites, implementing UP-based hosting, how to create a host, configuring IIS and Apache Web server. The other server types included are proxy, streaming media, e-mail, and FTP servers. In addition to servers, time is also dedicated to e-mail essentials and secure sockets layer (SSL) to secure communications. At the completion of this course, you will have accumulated the skills and knowledge needed to prepare for the CIW 1D0-450 Server Administrator exam.

Virtual Servers................................................. 1059_001
Secure Socket Layer....................................... 1059_002
Proxy and Streaming Media Servers................. 1059_003
Email............................................................ 1059_004
Email Servers............................................... 1059_005
FTP Servers.................................................... 1059_006

Telnet, NNTP, Linux Access Control, System Performance, Fault Tolerance, & Server Security for the CIW Server Administrator

Course Number: 1060
Time: 105 Minutes

Concentrate on how to provide TCP/IP and NNTP services. Study in Linux Access Control, and system performance monitored through system logging, log analysis, webalizer, and Windows Event Viewer. You will also be walked through fault tolerance by implementing redundancy, RAID, and the Windows Backup Utility. The final topic encompassed in this course is server security, which begins by identifying the various security risks and vulnerabilities and how to detect them. To become a certified server administrator, students need to pass the CIW 1D0-450 Server Administrator exam. This is a course to help you prepare for that exam.

Telnet............................................................. 1060_001
NNTP Services.............................................. 1060_002
Linux Access Control..................................... 1060_003
System Performance ...................................... 1060_004
Fault Tolerance............................................. 1060_005
Server Security............................................. 1060_006

CIW v5 Foundations (1D0-510) Series

Networking Basics, Hardware Requirements, OSI Model, IP Addressing, & Web Browsers for the CIW Web Foundations Associate

Course Number: 1068
Time: 360 Minutes

You will be provided with industry insight and an energetic presentation on CIW Web Foundation, networking basics, networking hardware requirements, how to get connected, and different Internet service providers. You will go through instruction covering the OSI model, IP addressing, domain names, protocols and ports, Web browsers, and browser add-ons. All of the topics covered will aid in preparing candidates to take the CIW Web Foundations (1D0-510) exam in order to earn their CIW Web Foundations Associate certification.

CIW Foundations .......................................... 1068_001
Networking Basics ....................................... 1068_002
Hardware Requirements............................... 1068_003
Getting Connected....................................... 1068_004
Internet Service Providers............................. 1068_005
Network Security, Viruses, Search Engines, Web Site Planning, & HTML for the CIW Web Foundations Associate
Course Number: 1069
Time: 225 Minutes

In this video training, you will learn about network security, how to build basic Web pages while working with HTML, and various search engines. In discussing network security, you will focus on the knowledge that professionals know, identifying different attacks, understanding cookies, and implementing digital certificates, proxy servers, and firewalls. You will also gain the essentials of how to plan a Web site by defining some essential terminology, and explaining site structure and authoring tools. Through this course, you will be prepared to take the CIW Web Foundations exam, 1D0-510, in order to earn their CIW Web Foundations Associate certification.

Network Security................. 1069_001
Viruses.................................. 1069_002
Search Engines....................... 1069_003
Using Search Engines.............. 1069_004
Web Site Planning................... 1069_005
HTML Foundations.................. 1069_006
HTML Formatting.................... 1069_007

Graphics, Web Color, Lists, Tables, Forms, Linking, & Frames for the CIW Web Foundations Associate
Course Number: 1070
Time: 255 Minutes

Study Web site design by concentrating on techniques for adding graphics with the insert rule lines and as a background, on color options and the hexadecimal color, and on how to create lists and tables. The other portion of this course covers linking content, collecting data with forms, optimizing graphics, and working with frames. This is a preparatory course for the CIW Web Foundations 1D0-510 exam in order to earn the CIW Web Foundations Associate certification.

Adding Graphics.......................... 1070_001
Web Color .................................. 1070_002
Creating Lists............................ 1070_003
Using Tables............................. 1070_004
Linking Content......................... 1070_005
Collecting Data with Forms.......... 1070_006
Optimizing Graphics................... 1070_007
Working with Frames................... 1070_008

Advanced Authoring Techniques, E-Commerce, Web Site Administration, Legal and Ethical Issues, & Web Technologies for the CIW Web Foundations Associate
Course Number: 1071
Time: 255 Minutes

The CIW Web Foundations (1D0-510) exam is taken to earn the CIW Web Foundations Associate certification. You will gain a deeper understanding of CIW Web Foundations through this course. Train in advanced authoring techniques particularly database connections and CSS, the basics of e-Commerce, how to manage and publish Web sites. You will learn about legal and ethical issues connected to Web sites. You will also find a brief overview of how to manage projects and descriptions of the different Web technologies that can be implemented. All these topics are essential to preparing for the CIW Web Foundations Associate.

Advanced Authoring Techniques........ 1071_001
E-Commerce............................ 1071_002
E-Commerce Standards.............. 1071_003
Web Site Administration............. 1071_004
Publishing Web Sites............... 1071_005
Legal and Ethical Issues............. 1071_006
Managing Projects................... 1071_007
Web Technologies.................... 1071_008

CIW v5 Site Designer (1D0-520) Series

Design Considerations, Guidelines, XHTML, Images, & Color for the CIW Web Design Specialist
Course Number: 1061
Time: 210 Minutes

You will learn the skills needed to build interactive Web sites while preparing for the CIW Web Site Designer exam 1D0-520. This is an introductory course that provides an
overview of the Internet Today by looking at Web site elements, W3C standards, Web page types and languages, and then design tools and applications. It then takes a close look at planning a Web site, in which you will study different design considerations to keep in mind, guidelines for creating sites, and tips on how to stay organized. The next part of the course is more detailed focusing on XHTML, images, and color options for Web site creation.

The Internet Today ........................................ 1061_001
Planning the Web Site ................................... 1061_002
Guidelines ................................................. 1061_003
XHTML ...................................................... 1061_004
Images ...................................................... 1061_005
Color ........................................................ 1061_006

Photoshop CS3, Tables, Formatting Text, & Links for the CIW Web Design Specialist
Course Number: 1062
Time: 210 Minutes

You will train in how to work within popular software product Photoshop CS3 that helps Web sites come to life. Looking in-depth at Photoshop CS3, you will navigate through the image tool interface, learn how to use palettes, discover how to create a background image, train in ways to optimize images, and work with Canvas. In addition to Photoshop CS3, you will find details on how to work with tables, format text, and incorporate links on a Web site. At the end of this course, you will be thoroughly prepared to take the Photoshop portion of the CIW Web Site Designer exam 1D0-520.

Photoshop CS3 Basics ................................. 1062_001
Working with Photoshop CS3 ......................... 1062_002
Optimizing Photoshop Images ......................... 1062_003
Tables ....................................................... 1062_004
Formatting Text ......................................... 1062_005
Links ........................................................ 1062_006

CSS, Frames, & Using Multimedia on Web Pages for the CIW Web Design Specialist
Course Number: 1063
Time: 150 Minutes

This video training hones in Cascading Style Sheets or CSS. Start out by looking at descriptions of the anatomy of a sheet and explanations on how to apply style sheets. Then move on to studying CSS formatting and the font properties that are used, how to set the margin property, and position background images. In addition to CSS, you will look at the advantages and disadvantages of adding frames, and the ways that multimedia can be used on a Web page. To take the CIW Web Site Designer exam 1D0-520, you need to have a thorough understanding of certain topics; this course instructs you in those topics to help prepare you for the examination.

Cascading Style Sheets ................................. 1063_001
CSS Formatting ......................................... 1063_002
Frames .................................................... 1063_003
Using Multimedia on Web Pages ...................... 1063_004

JavaScript, Java, XML, Server Technologies, Databases, Accessibility, & Dreamweaver Essentials for the CIW Web Design Specialist
Course Number: 1064
Time: 285 Minutes

Take an in-depth look at the different languages that can be used to create a Web page. The languages covered are JavaScript, XML, and Java; there is a distinction between Java and JavaScript. After looking at the different languages, continue on by exploring the different server technologies and databases associated with Web page creation. You will also study details on the configurations that can be set for accessibility, and the role of Dreamweaver CS3 in creating Web sites and the essential skills and knowledge needed to appropriately use that software program. Learn the skills needed to build interactive Web sites while preparing students to take the CIW Web Site Designer exam 1D0-520.

JavaScript .............................................. 1064_001
Java ....................................................... 1064_002
XML ....................................................... 1064_003
Server Technologies ................................. 1064_004
Databases ............................................... 1064_005
Accessibility ............................................ 1064_006
Dreamweaver CS3 ...................................... 1064_007
Dreamweaver Essentials ............................. 1064_008

Templates, Interactivity, Building Web Forms, CSS, and XHTML with Dreamweaver for the CIW Web Design Specialist
Course Number: 1065
Time: 210 Minutes

Continue the discussion on the role of Dreamweaver CS3 in Web site creation by looking at templates available in
Dreamweaver CS3, the steps taken to build Web forms, its relationship with CSS and XHTML, the productivity tools used, and how to add interactivity through the Spry Effect, behavior events, and the Rollover Effect. Dreamweaver CS3 along with Photoshop CS3 are excellent tools to make a Web designer’s efforts more efficient. With an understanding of these topics, you will be prepared to take the CIW Web Site Designer exam 1D0-520.

Dreamweaver CS3 Templates .................. 1065_001
Adding Interactivity with Dreamweaver ...... 1065_002
Building Web Forms with Dreamweaver .... 1065_003
CSS with Dreamweaver ........................ 1065_004
Dreamweaver Productivity Tools ............. 1065_005
XHTML and Dreamweaver ..................... 1065_006

Design Tools, Interactivity, Web Forms, CSS and XHTML with Expression for the CIW Web
Course Number: 1066
Time: 255 Minutes

You will be introduced to the Microsoft software program Expression Web - a Web site design and development program. Expression Web is another excellent tool that makes a Web designer’s tasks more manageable. Along with an overview of this program, you are also introduced to the different design tools and templates available, the steps that can be taken to add interactivity, how to build Web forms, and the relationship between CSS and XHTML. Learning these design tools, will ensure you are prepared to take the CIW Web Site Designer exam 1D0-520.

Expression Web .................................. 1066_001
Expression Design Tools ....................... 1066_002
Expression Templates .......................... 1066_003
Adding Interactivity with Expression ...... 1066_004
Building Web Forms with Expression ...... 1066_005
CSS with Expression ......................... 1066_006
XHTML with Expression ...................... 1066_007

Animation Basics, Web Sites, Publishing and Managing with Flash CS3 for the CIW Web Design Specialist
Course Number: 1067
Time: 180 Minutes

This video training looks at a program, Flash CS3, that provides Web designers with an advantage when working on a Web site. In discussing Flash CS3, you will learn about the interface, how to create animations, the instructions for designing Web sites with Flash, and the steps to publishing Flash movies. After focusing on Flash CS3, you will also find descriptions on how to manage Web sites specifically pertaining to Web site management and content management systems. Understanding Flash CS3 and how to manage Web sites provides you with some of the fundamental concepts for creating user-friendly Web sites. Additionally, this will help prepare you to take the CIW Web Site Designer exam 1D0-520.

Flash CS3 ......................................... 1067_001
Flash CS3 Animation Basics .................. 1067_002
Designing Web Sites with Flash ............. 1067_003
Publishing Flash Movies ..................... 1067_004
Managing Web Sites ............................ 1067_005

Internet Business Associate (1D0-51A)
Course Number: 431
Time: 360 Minutes
Number of Quizzes: 6 Quizzes

Learn how to manage and maintain core business software and hardware that organizations use to provide reliable Internet connectivity. Video segments from experts Dr. James Stanger and Stephen Schneider illustrate how to apply design factors for usability and navigation states in electronic media. With their guidance, you will be on your way to working in the Internet support market. This course, including supplemental study questions, is a valuable resource for those looking to pass the CIW Internet Business Associate 1D0-51A exam.

Introduction to IT Business and Careers ...... 431_001
Introduction to Internet Technology ........ 431_002
Web Browsing .................................. 431_003
Configuring Web Browsers .................. 431_004
Multimedia on the Web ........................ 431_005
Databases and Web Search Engines ....... 431_006
Email / Personal Information Management ................................ 431_007
Internet Services and Tools .................. 431_008
Web 2.0 Technologies ........................ 431_009
Internet Messaging Technologies .......... 431_010
Internet Security .............................. 431_011
IT Project and Program Management ...... 431_012
Network Technology Associate (1D0-51C) Series

Introduction to Networking, Operating Systems, Network Infrastructure, Data Transmission and Routing Protocols

Course Number: 1314
Time: 105 Minutes
Number of Quizzes: 1 Quiz

The goal of this training is to prepare you to become a Network Technology Associate. Start out with an introduction to networking as you review networks, protocols, telephony and convergence networking, networking evolution, the client-server model, the three-tier architecture, thin clients, the Network Operations Center, and network topologies. Then you’ll look into operating systems and protocols to understand virtualization, the need for protocols, the OSI model and OSI layers, major networking protocols like TCP/IP, MAC addresses, and binding protocols. Other topics covered in this training include understanding the network infrastructure, data transmission, and modern routing protocols. Engrain all of these concepts in your understanding to prepare for the 1D0-51C certification exam.

Operating Systems and Protocols............... 1314_001
Understanding the Network Infrastructure... 1314_002
Data Transmission................................... 1314_003
Modern Routing Protocols....................... 1314_004

Troubleshooting, Internetworking Servers, Understanding DNS, Hardware and OS Maintenance

Course Number: 1315
Time: 135 Minutes
Number of Quizzes: 2 Quizzes

You will focus on troubleshooting tools and techniques, internetworking servers, and understanding DNS. In the internetworking servers section, you will learn about file and print servers and the Web server, database terminology, proxy and mail servers, instant messaging, mailing list and media servers, FTP and News servers, the Content Management System, and other server types. Another topic covered is hardware and OS maintenance. The Hardware and OS maintenance section provides you with details on basic maintenance, motherboards, binary and hexadecimal numbering, ASCII and Unicode, serial and parallel communication, common peripheral ports, power considerations, optical discs, HDMI connections, and software licensing. With a solid understanding of these topics, you will be prepared to sit for the Network Technology Associate certification exam.

Troubleshooting Tools and Techniques........ 1315_001
Internet working Servers ..................... 1315_002
Understanding DNS ............................... 1315_003
Internet Working Servers Continued....... 1315_004
Hardware and OS Maintenance ............... 1315_005
Hardware and OS Maintenance Continued.. 1315_006

Understanding Data Structure, Network Security and Personal Privacy

Course Number: 1316
Time: 90 Minutes
Number of Quizzes: 2 Quizzes

You will gain an understanding of data structure as you look at partitions, logical drives and the logical drive format, file system types, file and directory permissions, the convert utility, the Disk Defragmenter, disk cleanup, backup and restore utilities, troubleshooting software, operating system boot errors, system lockup, and more. The majority of your time will be spent on security. You learn about viruses and worms, network attack types, how to defend against attacks, authentication, digital certificates and encryption, firewalls, NAT, security zones, VPNs, and uninterruptible power supply. Taking the security discussion a step further, you will get into personal privacy. Gain an in-depth understanding of these concepts to prepare for the Network Technology Associate certification exam.

Understanding Data Structure ................... 1316_001
Network Security ................................. 1316_002
Network Security Continued............... 1316_003
Understanding Personal Privacy ............. 1316_004

CompTIA

A+ All-In-One 2009 Series

Technician Professionalism, PC Hardware and Windows

Course Number: 1146
Time: 255 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 2 Labs

As an introductory course to CompTIA’s A+ 2009 exam, you will go over the responsibilities and characteristics of a successful technical professional, learn how to establish
network connectivity, explore the hardware components and requirements for PCs, and familiarize yourself with the Windows interface. Some of the hardware topics covered include the motherboard, drives, how to cool the system, measuring capacity, and 32-bit versus 64-bit. In the Windows interface section, you will tour the Windows Desktop, Task Manager, login screens, and compatibility mode. All in all, the topics covered will aid in preparing you for your A+ certification exam.

Technician Professionalism .................. 1146_001
Successful Communication .................. 1146_002
The Visible PC .................................. 1146_003
Inside the System Unit ......................... 1146_004
Visible Windows ................................. 1146_005
64-Bit Windows .................................. 1146_006
Windows: The Grand Tour ..................... 1146_007

Function and Hot Keys, Critical System Files, System Registry and System Tools
Course Number: 1147
Time: 120 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 4 Labs

With the skills you gain here, you will be able to execute tasks faster, locate system files faster, and utilize registry and system tools as in the MMC, the Control Panel, and Registry Editor 32 to your advantage. You will also gain an understanding of the essential concepts tested in the CompTIA A+ 2009 exam. A computer’s operating system provides a range of options to access resources and work in different applications. Learn how to use function keys, hot keys, and other key combinations to quickly execute tasks on the operating system. Additionally, discover system files found in System32 folder, Temp folder, Documents and Settings, Common User folders, and Vista Users folder that are essential to the operating system functioning properly. Begin your preparation for the A+ certification exam.

Hot Keys, Function Keys, and Aero ........... 1147_001
Critical System Files ............................ 1147_002
Registry and System Tools ..................... 1147_003

Microprocessors, Machine Language, Pipelines, CPUs, RAM, BIOS and CMOS
Course Number: 1148
Time: 330 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 2 Labs

Take a closer look at how information is processed and stored on a computer. You will start out by deepening your understanding of microprocessors, and then transition into machine language. Topics covered in the machine language section are program commands, determining RAM size, clock speed, bits and bytes, and address registers. After that, you will then study pipelines, the Clock Multiplier, CPUs, and storage and boot-up options as in RAM and BIOS respectively. There is a large amount of details covered within these topics. Take your time going through these topics in preparation for the CompTIA A+ certification exam.

Understanding Microprocessors .............. 1148_001
Machine Language .............................. 1148_002
Pipelines ......................................... 1148_003
Clock Multiplier .................................. 1148_004
CPUs ............................................... 1148_005
Installing and Upgrading CPUs .............. 1148_006
RAM ............................................... 1148_007
BIOS and CMOS ................................. 1148_008
Expansion Bus ................................... 1148_009

Motherboards, PC Power Supply and Hard Drives
Course Number: 1149
Time: 120 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 2 Labs

Walk through the process of powering on a computer looking at all the cabling needs associated with it, while learning about motherboards and the physical hard drive. You will discover the components associated with motherboards specifically ATX, NLX, motherboard accessories, the motherboard book, and front panel connections. The physical hard drive section covers the inside of the hard drive, read/write armatures, data scale, flux reversal, and CHS values. These are all topics covered in CompTIA’s A+ exam. Prepare yourself for this certification exam by focusing on each of them and solidify your knowledge and skills as a technical professional.

Motherboards and Cases ........................ 1149_001
Powering the PC ................................. 1149_002
The Physical Hard Drive ....................... 1149_003
ATA, SCSI, RAID, Partitioning, Mounting, Formatting and Removable Media

Course Number: 1150
Time: 300 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 9 Labs

Going over hard drives, you will specifically focus on ATA, SCSI, and RAID. You will also learn about partitioning, mounting, formatting, managing, and maintaining drives. Each of these activities are addressed on an individual basis. In the mounting and formatting section you will go over mount points, formatting the drive, allocation units, dynamic disks, various volumes types, and quick versus standard formatting. Learn about defragmentation and Check Disk as techniques and tools involved in maintaining hard drives. There is also a section dedicated to removable media, which explores floppy drives, optical media, CD-Rs, DVDs, Flash media, and Blu-Ray. With these topics, you’ll have ample knowledge to appropriately answer any questions on hard drives that will come up on CompTIA’s A+ exam.

Troubleshooting Windows, Command Prompt, Users, Groups, NTFS and Backups

Course Number: 1151
Time: 225 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 10 Labs

Focus on operating system installation, configuration, and issue resolution. For Windows installation and configuration, you will find presentations on the installation process, the different installation methodologies, post installation jobs, and system activation. You will learn how to troubleshoot Windows to address boot problems, Windows startup problems, and application problems. There are also sections dedicated to working with permissions and the Command Prompt. As part of monitoring the operating system, you will learn how to back up the system and migrate data. These are topics you must focus on concerning the operating system to excel when taking the A+ certification exam offered by CompTIA.

General Purpose Input/Output, Multimedia, Managing and Maintaining Video

Course Number: 1152
Time: 150 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 3 Labs

You’ll explore three areas: general purpose input/output, video, and multimedia. On the topic of general purpose input/output, you will look at serial ports, human interface devices, Firewire, accessibility options, Windows mobile devices, and the KVM switch. For the managing and maintaining video section, you will study CRT monitors, refresh rates, degaussing, polarity of light, resolution, color depth, dual monitors, and how to troubleshoot video problems. Learn about sound waves, MIDI synthesis, surround 5.1, video capture devices, Webcams, headsets, and volume control. Gaining an understanding of these topics will help prepare you for CompTIA’s A+ certification exam.

Computer Assembly, Ethernet, Network Protocols and Troubleshooting Network

Course Number: 1153
Time: 225 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 3 Labs

Prepare for your CompTIA A+ exam by studying computer assembly and network connectivity. Computer assembly goes over motherboard and CPU assembly, how to assemble within the case, hard drive and Windows installation, and how to lock the drive. The focus of network connectivity is on network cabling, Ethernet, network protocols specifically TCP/IP, as well as how to get online. To get online, you will find presentations on IP classes, DSL, satellite, ISDN, WAL/LAN connections,
nslookup, and configuring a router. There is also a section instructing you on how to troubleshoot networking connections, where you will concentrate on loopback plugs, cable testers, traceroute, and ping -l.

Computer Assembly ........................................ 1153_001
Network Cabling ........................................... 1153_002
Ethernet ...................................................... 1153_003
Network Protocols and TCP/IP ....................... 1153_004
Getting Online............................................... 1153_005
Troubleshoot Networking Connections........ 1153_006

Internet Applications, Threats, Firewalls, Anti-Malware and Wireless
Course Number: 1154
Time: 180 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 3 Labs

You will study Internet applications and system security. There is a wide range of Internet applications accessible to the user. Some of the topics covered under this are using TCPView, configuring a proxy server, configuring email accounts, remote desktop protocols, and shared folders. From there, you will focus on how to implement system security through firewalls and anti-malware. There is also a section that covers the details behind wireless configurations as in 802.11b, configuring a wireless access point, connection control, and WLAN/DHCP server configuration. With these topics, you’ll gain ample knowledge to accurately answer any questions on Internet applications, system security, and wireless connections that come up on CompTIA’s A+ exam.

Internet Applications Part I .......................... 1154_001
Internet Applications Part II ......................... 1154_002
Threats and Firewalls ..................................... 1154_003
Anti-Malware ............................................... 1154_004
Wireless ...................................................... 1154_005

Printers, Portable Computing, Laptop Repair and Power Management
Course Number: 1155
Time: 225 Minutes
Number of Quizzes: 1 Quiz

Tackle another section of the A+ objectives in preparation for the certification exam. You will start out by going over the general knowledge of printers, printer installation, and printer maintenance. In the general knowledge section, you will look at the dot matrix, different printer types, port modes, along with cables and network printer connections. Next, you will cover portable computing concentrating on external and video ports, the function key, docking stations, media and USB ports, laptop batteries, and AC adapters. When working with portable devices, it’s important to know how to repair them and their different components, and manage power to them with CMOS power settings, wake on settings, and power on alarm. Wrap up your training by learning about consumables, odors, driver signing, how to create folders, and extension magnets.

Printers .................................................. 1155_001
Installing and Maintaining Printers............. 1155_002
Portable Computing ..................................... 1155_003
Laptop Repair and Power Management ....... 1155_004
LK Films: Your PC and You ......................... 1155_005
LK Films: Troubleshooting and You .......... 1155_006

Windows 7, User Account Controls, Disk Management, IPv6 and Networking
Course Number: 1156
Time: 255 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 2 Labs

Concentrate on Windows 7, disk management, and networking permissions. Concerning Windows 7, you will be introduced to its interface, how to install it, its installation requirements, and the different features associated with Windows 7 Explorer. Then, you’ll shift your attention to user account controls and disk management, where you will learn how to modify UAC settings, and explore FAT32 and FAT64/ exFAT. The next topic covered takes a closer look at network connectivity as you go over IPv6, and other topics like permissions, sharing, discovery, Vista assignment and discovery, and homegroups. Deepen your understanding of all these topics to thoroughly prepare for the CompTIA A+ exam.

Windows 7 Introduction ......................... 1156_001
Installing Windows 7 .............. 1156_002
Windows 7 Explorer ....................... 1156_003
UAC ............................................ 1156_004
Disk Management ......................... 1156_005
IPv6 Introduction .......................... 1156_006
Networking ............................... 1156_007
CASP (CAS-001) Series

Security Principles and Disciplines, Change Management and Technology Life Cycles

Course Number: 1161
Time: 120 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 2 Labs

Start your training with an introduction to security concepts, CASP certification, and knowledge domains. Delve into security principles such as the CIA model, AAA, and defense in depth. In addition to those security principles, you will go over security in the enterprise, security disciplines for a programmer, database administrator, manager, and stakeholder. There are also presentations on how security is maintained through changes such as mergers, network segmentation, or de-mergers. Wrap up your training by going over technology life cycles as in SDLC and SRTM. Prepare for your CASP certification.

Introduction ............................................. 1161_001
Security Principles ..................................... 1161_002
Security and the Enterprise .......................... 1161_003
Security Disciplines ................................... 1161_004
Security and Change ................................... 1161_005
Technology Life Cycles ............................... 1161_006

Cryptography Essentials and Methods, Advanced Encryption and Public Key Infrastructure Essentials

Course Number: 1162
Time: 90 Minutes
Number of Quizzes: 1 Quiz

Focus on cryptography, advanced encryption, and Public Key Infrastructure. To implement cryptography, you must have an understanding of cryptography concepts, uses, and encryption types. You must also familiarize yourself with cryptographic methods like hashing, digital signatures, transport encryption, and code signing. Study all those elements of cryptography, as well as advanced encryption topics like entropy, pseudo random numbers, symmetric encryption, and symmetric algorithms. In the PKI section, you will explore asymmetric encryption, certificates, PKI applications, and public key cryptography. Altogether, these topics will aid in preparing you for the CASP certification.

Cryptography Essentials ......................... 1162_001
Cryptographic Methods ............................. 1162_002
Advanced Encryption ................................. 1162_003
Public Key Infrastructure Essentials ............. 1162_004

Implementing PKI, Encrypting Files and Authentication Essentials

Course Number: 1163
Time: 105 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 4 Labs

Prepare for the CASP certification exam by learning about Public Key Infrastructure, file and drive encryption, and the authentication process. PKI topics covered include OCSP, certificate issuance, wildcard certificates, installing AD CS, private key, certificate database, and update PKI properties. In the file and drive encryption section, you will focus on EFS, FEK, recovery agents, and BitLocker. Critical to securing any network or computer is implemented authentication. There are different authentication methods, and different tools as in Single Sign-On, SOAP, and driver signing information that are used in the authentication process. To deepen your understanding of the authentication implementation process, you will train in VMware appliances, user-specific settings, Group Policy settings, and Account Lockout settings.

Advanced PKI Concepts ............................... 1163_001
Implementing a PKI ................................... 1163_002
Encrypting Files/Drives .............................. 1163_003
Authentication Essentials ........................... 1163_004
Advanced Authentication Tools .................... 1163_005
Implementing Authentication ....................... 1163_006

Host-Based Security, Storage Solutions, Virtualization, VLANs and Application Security

Course Number: 1164
Time: 195 Minutes
Number of Quizzes: 3 Quizzes
Number of Labs: 4 Labs

Begin preparing for the CASP certification exam by learning about host-based security. Host-based security addresses viruses and virus phases, worms, viral infection, host hardening, and trojans. From there, delve into security in storage solutions looking specifically at RAID levels and Snapshot. The next topic covered is virtualization where you will strengthen your understanding of virtualization basics, ways to implement it, and the role of VLANs. The remainder of the course explores application security, and security for general communication, remote communications, and collaboration. In application security, you will go over Web applications, cross-site scripting, memory attacks, fuzzing, and application sandboxing.

Host-Based Security ................................ 1164_001
Storage Solutions ................................... 1164_002
Virtualization................................. 1164_003
Implementing Virtualization................. 1164_004
VLAN Essentials................................ 1164_005
Implementing VLANs.......................... 1164_006
Communication/Collaboration.............. 1164_007
Securing Remote Communications........... 1164_008
Application Security Essentials............ 1164_009
Application Security Solutions .............. 1164_010

**Secure Design, Service Planning, Security Assessment, Network Scanning and Analysis**

Course Number: 1165
Time: 105 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 3 Labs

In planning security, it is important to consider the design of the network, and how to incorporate security when planning the services. Learn how to implement security by design. You will also go through the process of service security where you will find instruction on securing DNS and network devices, and configuring services and router security. Next you'll find discussions on maintaining network security. Part of maintaining network security is monitoring using security assessment methods like fingerprinting, shoulder surfing, and reverse social engineering. It would also be advantageous to use network scanning tools like the Angry IP scanner and Nmap, as well as network analysis tools like Wireshark. Gain all the knowledge and skills you need to prepare for the CASP exam.

Security by Design........................... 1165_001
Service Security............................. 1165_002
Security Assessment Methods.............. 1165_003
Network Scanning............................ 1165_004
Network Analysis............................ 1165_005

**Risk Analysis, Risk Management, Risk Mitigation and Incident Response Planning**

Course Number: 1166
Time: 120 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 3 Labs

You will explore all of the details, concepts, and considerations behind risk and incident management. Start out with the risk analysis process where you discover assets, determine risk, and come up with risk management plans. Now that you have identified the risk, move onto making business decisions in light of the risk, mitigating risks using CIA and risk security controls, and utilizing the risk assessment toolkit. Then shift your attention over to security incidents, which includes topics such as lansweeper, data breaches, events logs, BIA, and backup types. There is also a section dedicated to incident response planning. Overall, the topics covered in this course will prepare you for the CAS-001 exam.

Risk Analysis Essentials.................... 1166_001
Risk/Business Decisions..................... 1166_002
Risk Mitigation............................. 1166_003
Risk Assessment Toolkit...................... 1166_004
Security Incidents........................... 1166_005
Incident Response Planning................ 1166_006

**Security Analysis, Trends, Policies and BackTrack**

Course Number: 1167
Time: 120 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 2 Labs

Ensure that you know how strong a security set up is by using benchmarking, test/prototype solutions, and security effectiveness reviews. You will also find presentations on traffic analysis, security trends, and security policy essentials. In the security policy section, you will learn about the role of security audits in security policies, privacy principles, and the different policy types as in the dial-in access policy, ethics policy, risk assessment policy, and personal communication devices policy. Additionally, there is a demonstration on how to work with BackTrack. The CASP certification exam encompasses a range of security topics. Prepare for it by solidifying your understanding of these essentials.

Security Analysis Methods.................. 1167_001
Traffic Analysis............................. 1167_002
Security Trends.............................. 1167_003
Security Policy Essentials.................. 1167_004
Security Policy Types....................... 1167_005
BackTrack Example.......................... 1167_006

**Convergence+ Series**

**Traditional Telephony, PSTN, Dialing Plans, Call Routing, VoIP and Codecs**

Course Number: 1213
Time: 270 Minutes

You will be introduced to telephony as you explore early telephony training, how VoIP relates to it, and traditional
telephony. Once you've covered the basics, you'll take a look at the PSTN components and features, numbering and dialing plans, call routing, and VoIP. In the VoIP section, you will specifically study VoIP packetization and VoIP protocols as in TCP, UDP, RTCP, SRTP, and H.323. You’ll wrap up your training with discussions on codecs concentrating on the definition of a codec, identifying the Cisco supported ones, how to select codecs, and configure codec complexity. Topics covered focus on telephony fundamentals. Internalize everything you need to know about this objective to prepare for CompTIA’s Convergence+ exam.

Traditional Telephony .......................... 1213_001
PSTN Components .......................... 1213_002
PSTN Features .......................... 1213_003
Numbering/Dialing Plans .......................... 1213_004
Call Routing .......................... 1213_005
VoIP Packetization .......................... 1213_006
VoIP Protocols .......................... 1213_007
Codecs .......................... 1213_008

Unified Communications, DSPs, Analog and Digital Voice Ports, Contact Centers and Voice Gateways
Course Number: 1214
Time: 210 Minutes

The Convergence+ exam covers a range of topics concerning voice and related networking technologies. Encompassed under voice is Unified Communications. To better understand UC, you need to be taught about its role with the OSI model, physical topologies, the traffic shaping model, VoIP phones, endpoint devices, and networking technologies. There’s also a section studying analog and digital voice ports. You will also learn about the role of Contact Centers, Digital Signal Processors, and Voice Gateways. In the DSP section, you’ll explore what they are, how they function, DSP farms, ways to set up a DSP farm profile, and install PVDM module. Thoroughly explore these topics to prepare for the CompTIA Convergence+ exam.

Unified Communications Overview .......... 1214_001
UC Devices ...................... 1214_002
Digital Signal Processors ...................... 1214_003
Analog Voice Ports ...................... 1214_004
Digital Voice Ports ...................... 1214_005
Contact Centers ...................... 1214_006
Voice Gateways ...................... 1214_007

Dial-Peers, VLANs in VoIP Networks, PoE and QoS
Course Number: 1215
Time: 210 Minutes

Delve into dial-peers, VLANs, Power over Ethernet, and Quality of Service concepts. Dial-peer topics include call legs, dial-peer commands and wildcards, PLAR connections, configuration steps, and how to enable voice ports. In the PoE section, you will learn about the different types and classes of PoE, standards associated with PoE, and how to configure and verify PoE. Discussions focusing on QoS include mobility, network analysis, how to increase bandwidth, the voice packet and VoIP quality requirements, automatic QoS, creating class-map policies, and QoS setup for switchports. All in all, the topics covered here will help prepare you for the Convergence+ exam.

Understanding Dial-Peers ...................... 1215_001
Configuring Voice Dial-Peers ...................... 1215_002
VLANs in VoIP Networks ...................... 1215_003
Understanding and Configuring PoE ...................... 1215_004
VoIP and Quality .......................... 1215_005
Quality of Service Protocols ...................... 1215_006
Configuring QoS .......................... 1215_007

Gatekeepers, CallManager Express, Legacy Integration and Managing VoIP Phones
Course Number: 1216
Time: 150 Minutes

In voice architecture, gatekeepers play an essential role. To fully understand the role of gatekeepers, you will look at types of gatekeepers, gatekeeper signaling, gatekeeper interaction, IOS supported gatekeepers, zone configuration, configuring and verifying gatekeepers, and loopback IP addresses. In addition to gatekeepers, you will also learn about CallManager Express, Legacy integration, and VoIP phones. In the section focusing on VoIP phones, you will learn how to install them; configure DHCP, TFTP, and NTP; and go through the phone boot process. Gain all the knowledge, skills, and techniques needed to prepare for the Convergence+ exam offered by CompTIA.

Understanding Gatekeepers .......................... 1216_001
Configuring Gatekeepers ...................... 1216_002
CallManager Express ...................... 1216_003
Legacy Integration ...................... 1216_004
Managing VoIP Phones ...................... 1216_005
IP-to-IP Gateways, Video over IP, VoIP Performance Monitoring and Troubleshooting

Course Number: 1217
Time: 120 Minutes

Continuing on with the discussion of gatekeepers, you will concentrate on IP-to-IP gateways by studying why they are used, how to implement unified border elements with them, and configuration elements as in delivery, formats, signal resolution, bandwidth, and IP protocols. From here, you will go onto Video over IP, which involves a five-step solution to address common problems and the acronym REACT. Building on that discussion, you will add to it knowledge of VoIP performance monitoring. Having covered those fundamentals, you will then shift your attention to troubleshooting Cisco voice hardware issues and VoIP networks. Absorb the knowledge you need to prepare to pass CompTIA’s Convergence+ certification exam.

IP-to-IP Gateways ....................................... 1217_001
Configuring IP-to-IP Gateways ...................... 1217_002
Video over IP ........................................... 1217_003
Troubleshooting VoIP Networks .................. 1217_004
Troubleshooting Cisco Voice Hardware ......... 1217_005
VoIP Performance Monitoring ..................... 1217_006

Network+ (N10-004) Series

Introduction, Packets, Topologies, OSI, Network Cabling, Ethernet Basics and 10Base/100Base Ethernet

Course Number: 1317
Time: 195 Minutes
Number of Quizzes: 1 Quiz

Prove that you know all the essentials behind networking by taking the Network+ certification exam. In preparation for this exam, you’ll go over an outline of the exam as you learn about the exam domains. Then you’ll begin gaining foundational knowledge of networking as you study packets, topologies, network cabling, the Ethernet, and how to build a network with OSI. In the Ethernet section, you’ll go over the basics, where you’ll come away with an understanding of Ethernet, the Ethernet frame, ways to conceptualize Ethernet, CSMA/CD, daisy chaining hubs, 10Base Ethernet, and 100Base Ethernet. Covering these topics will place you on your way to preparing for CompTIA’s Network+ certification exam.

Packets......................................................... 1317_001

Topologies ................................................. 1317_002
Building a Network with OSI ....................... 1317_003
Network Cabling ......................................... 1317_004
Ethernet Basics ......................................... 1317_005
10Base/100Base Ethernet .......................... 1317_006

Modern Ethernet, Structured Cabling, TCP/IP and IP Addressing

Course Number: 1318
Time: 165 Minutes
Number of Quizzes: 2 Quizzes

Wrapping up the discussion on Ethernet, you will look at modern Ethernet, which takes into consideration Ethernet switches, STP, switching, gigabit Ethernet, backbone, 10GbE, and 10GbE-T. From there, you’ll dig into structured cabling topics that cover structured cabling terminology, rack units, wiring distribution, patch panel and cables, a demonstration on horizontal run, the physical network diagram, cable making tools, punch tools, testing tools, toner probes, and other structured cable tools. And then you will be introduced to TCP/IP and IP addressing. The IP addressing section is broken up into two areas basic IP addressing and advanced IP addressing. It’s in the advanced IP addressing section that you’ll learn about class licenses, CIDR, ping, ARP, MAC IP tools, and Linux IP tools. Solidify your understanding of Ethernet, structured cabling, and TCP/IP protocols in preparation for the Network+ certification exam.

Modern Ethernet ....................................... 1318_001
Structured Cabling ................................. 1318_002
Structured Cabling Tools ......................... 1318_003
Introducing TCP/IP .................................. 1318_004
Basic IP Addressing ............................... 1318_005
Advanced IP Addressing ....................... 1318_006

Subnetting, DHCP, Network Naming, WINS, Static Routing, Dynamic Routing and Firewalls

Course Number: 1319
Time: 255 Minutes
Number of Quizzes: 1 Quiz

To help you build an in-depth understanding of networking concepts, you will study subnetting, DHCP, network naming, Windows Name Resolution, TCP/IP ports, static and dynamic routing, and firewalls. In the subnetting section, you’ll focus on the subnet setup, extending the subnet, calculating hosts, determining IP addresses, applying subnetting, and determining network IDs. The static and dynamic routing sections cover details on router console sables, routing tables, static routes, dynamic routing types, distance vector, OSPF, hybrid,
and MTR. Utilize this training to help you solidify your understanding of networking concepts, and prepare you to administrate a network.

Subnetting ................................. 1319_001
DHCP ........................................ 1319_002
Network Naming .......................... 1319_003
Windows Name Resolution ............ 1319_004
Introducing TCP/IP Ports .............. 1319_005
Static Routing ............................... 1319_006
Dynamic Routing ......................... 1319_007
Firewalls ..................................... 1319_008

Internet Applications, Encryption, Authentication, Implementing Wireless and Advanced Networking Devices
Course Number: 1320
Time: 195 Minutes
Number of Quizzes: 2 Quizzes

Regarding Internet Applications, you will learn details for identifying a DHCP port and DNS port, SNMP and SNMP types, Telnet, network time protocol, and FTP. You’ll also cover security topics - encryption and authentication. In the authentication section, you’ll find explanations on authentication standards, point-to-point protocol, PAP and CHAP, Kerberos, AAA tools, EAP, and 802.1x. From there, you’ll concentrate on wireless concepts specifically wireless settings, wireless security like AES encryption, and how to implement wireless. The last portion of the course is spent looking at advanced networking devices. Gain all the knowledge and skills you need to thoroughly prepare to be a network administrator.

Internet Applications Part I ............... 1320_001
Internet Applications Part II .............. 1320_002
Encryption .................................... 1320_003
Authentication .............................. 1320_004
Wireless ...................................... 1320_005
Implementing Wireless ................... 1320_006
Advanced Networking Devices ........... 1320_007

IPv6, Remote Connections, Remote Access, Network Optimization, Network Integrity and Troubleshooting
Course Number: 1321
Time: 300 Minutes
Number of Quizzes: 2 Quizzes

Topics covered include IPv6, remote connections, Remote Access, network optimization, physical network protection, and how to maintain network integrity. In the physical network security section, you will cover security considerations, physical security, theft, power, HVAC, fire, and hardware failure. There’s also a section providing you with descriptions on how to make connections, working with POTS/PSTN and the Central Office, transitioning from digital to analog to digital again, the cable modem, satellite, and wireless. A large portion of this course provides you with demonstrations on LAN, wireless, and WAN issues. You will observe what different problems look like, and learn the steps taken to address them.

IPv6 ........................................... 1321_001
Remote Connections ...................... 1321_002
The Last Mile ............................... 1321_003
Remote Access ............................. 1321_004
Network Optimization .................... 1321_005
Physical Network Protection .......... 1321_006
Maintaining Network Integrity .......... 1321_007
The Art of Network Support ............. 1321_008
Lab 1: LAN Issues .......................... 1321_009
Lab 2: WAN Issues ....................... 1321_010
Lab 3: Wireless Issues .................... 1321_011

Security+ (SY0-301) Series
Introduction to the Security+ Certification Exam
Course Number: 696
Time: 30 Minutes
Number of Labs: 1 Lab

You will learn how to implement and maintain an effective security strategy within your company’s network infrastructure. As an introductory course, you will cover details pertaining to the Security+ exam as in exam prerequisites, knowledge domains, and exam preparation tips. There is also information on the layout of the exam and specifics on taking the exam. Gain the background information needed to appropriately prepare for CompTIA’s Security+ certification.

Introduction ................................ 696_001

Risk Analysis & Mitigation, Security Awareness & Business Continuity
Course Number: 697
Time: 165 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 1 Lab

Learn how to conduct risk analysis and mitigation, security awareness training, and security principles. In the risk
mitigation section, you will solidify your understanding of how qualitative risk distinguishes itself from quantitative risk, discover different risk responses and strategies, and learn what ALE stands for and its function. Some of the highlights from the security awareness training discussion center on educating and clearly communicating the various threats that users can encounter. The last topic you will study is business continuity. All these processes covered in these topics will aid you in maintaining your network and help you to prepare for the Security+ exam.

Security Principles .......................... 697_001
Risk Analysis .................................. 697_002
Risk Mitigation ................................. 697_003
Incident Response .............................. 697_004
Security Policies ............................... 697_005
Security Awareness Training .................. 697_006
Business Continuity ............................ 697_007

Network Infrastructure Devices,
TCP/IP, Protocols, Ports & Firewalls
Course Number: 698
Time: 195 Minutes
Number of Quizzes: 3 Quizzes
Number of Labs: 2 Labs

Study through details on the infrastructure devices of your network, descriptions of the roles of protocols like TCP/IP, and the ways you can work with ports and firewalls. Along with the network infrastructure devices, you will learn about network services and network design including network perimeters, DMS, and VoIP telephony. By the end of this course, you will understand a network’s architecture. The protocols and ports section provide you with discussions on SCP, ICMP, HTTP, IPv4 and IPv6 addressing. The final details covered pertain to the remaining network components, where you will develop your skills in configuring firewalls, study protocol analyzers and Wireshark reports, and look over the tools used for wireless purposes. All these topics fall into one of the knowledge domains of the Security+ exam.

Network Infrastructure Devices .............. 698_001
Network Services ............................... 698_002
Network Design .................................. 698_003
TCP/IP ............................................ 698_004
Network Protocols and Ports ................... 698_005
Understanding Firewalls ....................... 698_006
Additional Network Components ............. 698_007
Understanding Wireless ........................ 698_008

Data & Database Servers, Authentication Services, Cryptography & Public Key Infrastructure
Course Number: 699
Time: 150 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 5 Labs

Focus your attention on application security and the role of database servers. Application security encompasses Web applications and their implementation, application tiers, SharePoint farms, IIS, and application pools. The primary methods used to implement security are through authentication services and cryptography. In those sections, you will study symmetric and asymmetric encryption, steganography, RADIUS servers, TACACS, and access control. Other information that you will find useful pertaining to the Public Key Infrastructure, the File Server Resource Manager, and, commercial certificates. With this information, you will be further prepared for your Security+ certification.

Application Security ............................ 699_001
Data and Database Servers ..................... 699_002
Understanding Authentication .................. 699_003
Authentication Services ........................ 699_004
Cryptography 101 ................................ 699_005
Cryptographic Tools and Products ............. 699_006
Public Key Infrastructure ........................ 699_007

Types of Security Attacks
Course Number: 700
Time: 195 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 6 Labs

There are a number of security attacks that a network must ward off. Concentrate on some of them, such as authentication attacks, application attacks, wired attacks, server attacks, and wireless network attacks. You will also spend time looking at database vulnerabilities, malware, social engineering, and how to scan your network for attacks. Scanning methodologies fall under the discussion on other types of attacks, where you will find details on spam, malicious insider attacks, Rootkit limitations, and backdoors.

Authentication Attacks .......................... 700_001
Wired Network Attacks .......................... 700_002
Wireless Network Attacks ........................ 700_003
Application Attacks ............................. 700_004
Database Vulnerabilities ........................ 700_005
Server Attacks ................................... 700_006
Malware ........................................... 700_007
Social Engineering ........................................ 700_008
Additional Attacks........................................ 700_009

Security Attack Control Prevention
Course Number: 701
Time: 255 Minutes
Number of Quizzes: 3 Quizzes
Number of Labs: 10 Labs

Prepare for the Security+ exam by reviewing the different ways to protect and prevent against security attacks on the network. You will look at a range of processes including how to detect attacks, implement physical security, and ways to update and manage patches. Some of the other topics include server hardening, port security, vulnerability scanning, application security and hardening, and user rights baseline. The last portion of the course is dedicated to virtualization and disaster recovery. The virtualization section introduces you to virtual machines like the Citrix XenServer; virtualization solutions, risks, and methods; how to create and configure a virtual machine; and cloud computing.

Detecting Attacks ........................................ 701_001
Automated Detection ...................................... 701_002
Physical Security......................................... 701_003
Environmental Controls ................................. 701_004
Secure Administration ................................... 701_005
Server Hardening........................................... 701_006
Port Security................................................. 701_007
Vulnerability Scanning .................................... 701_008
Application Security and Hardening .................... 701_009
Update and Patch Management .......................... 701_010
Virtualization............................................... 701_011
Disaster Recovery ......................................... 701_012

Security+ (SY0-201) Series
Security Requirements, Threats, Privilege Escalation, Risks & Vulnerabilities
Course Number: 1072
Time: 180 Minutes
Number of Quizzes: 1 Quiz

Develop your understanding of network administration with this LearnSmart course. You are provided with detailed information on how to manage all facets of a network. Go through an introduction to the Security+ exam, security requirements on a network. After the introduction, the other portion of the course identifies risks on a network by discussing the different security threats, hardware security risks, network vulnerabilities, infrastructure risks, and wireless vulnerabilities. Having covered this information, you will be more prepared for the Security+ (SY0-201) certification exam.

Security Requirements .................................. 1072_001
Security Threats............................................. 1072_002
Privilege Escalation....................................... 1072_003
Hardware Security Risks................................. 1072_004
Network Vulnerabilities.................................. 1072_005
Infrastructure Risks....................................... 1072_006
Wireless Vulnerabilities................................. 1072_007

Course Number: 1073
Time: 135 Minutes
Number of Quizzes: 1 Quiz

You will study four areas: wireless encryption, personal device security, authentication, and authorization. In wireless encryption, you will learn about encryption cracking, WEP and WEP problems, authentication, and weak initialization vectors. Personal device security looks at security measures for portable devices and laptops, and discusses bluejacking and bluesnarfing. The authentication section presents the fundamentals, hardware, and protocols of authentication. And then authorization encompasses the topics of authorization models, and the relationship between users, groups, and roles. Upon course completion, you will have gained necessarily knowledge to help prepare them for the Security+ (SY0-201) certification exam.

Wireless Encryption...................................... 1073_001
Personal Device Security................................. 1073_002
Authentication Fundamentals............................ 1073_003
Authentication Hardware.................................. 1073_004
Authentication Protocols.................................. 1073_005
Advanced Authentication Protocols..................... 1073_006
Users, Groups, and Roles.................................. 1073_007
Authorization Models.................................... 1073_008

ACLs, Access Control Methods, Remote Access Security, Physical Security, Web Application Security and Email Security
Course Number: 1074
Time: 135 Minutes
Number of Quizzes: 1 Quiz

This video training is a preparatory course for the Security+ (SY0-201) certification exam. One section
Standard Courses

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Course Number</th>
<th>Time (Minutes)</th>
<th>Number of Quizzes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Wireless Network Security, Monitoring Systems, Scanning, Cryptography 101, and Encryption Algorithms</strong></td>
<td>1076</td>
<td>120</td>
<td>1 Quiz</td>
</tr>
<tr>
<td><strong>Client Security Solutions, Virtualization, Firewalls, Security Design, &amp; Intrusion Detection and Prevention</strong></td>
<td>1075</td>
<td>135</td>
<td>1 Quiz</td>
</tr>
<tr>
<td><strong>Encryption Protocols, Hashing, PK Cryptography, Risk Assessments, Redundancy Planning, Disaster Recovery, &amp; Social Engineering</strong></td>
<td>1077</td>
<td>150</td>
<td>1 Quiz</td>
</tr>
</tbody>
</table>

**Wireless Network Security**
- ACLs .......................................................... 1074_001
- Access Control Methods ..................... 1074_002
- Remote Access Security ...................... 1074_003
- Physical Security .................................. 1074_004
- OS Hardening .......................................... 1074_005
- Application Security ............................. 1074_006
- Web Application Security ..................... 1074_007
- Email Security ........................................ 1074_008

**Client Security Solutions, Virtualization, Firewalls, Security Design, & Intrusion Detection and Prevention**
- Course Number: 1075
- Time: 135 Minutes
- Number of Quizzes: 1 Quiz

Preparing for the Security+ (SY0-201) certification exam is easy with this course. You will study security in a virtualization environment and telephony security. In the telephony security section, you will look at traditional PBX, VoIP, SIP security, and H.323 security. Alongside that, you will be provided with client security solutions and tactics for detection and prevention against intrusion. You will also receive instruction on how to install network firewalls, control Internet access, and work with protocol analyzers such as Wireshark and HTTP Filter.

**Encryption Protocols, Hashing, PK Cryptography, Risk Assessments, Redundancy Planning, Disaster Recovery, & Social Engineering**
- Course Number: 1077
- Time: 150 Minutes
- Number of Quizzes: 1 Quiz

Develop your understanding of network administration with the help of this LearnSmart course. Enc compassed details include encryption protocols, hashing, and public key cryptography. Then the focus shifts to risk assessments, redundancy planning and RAID, and incident response and the IR process. Wrap up your studies by focusing on disaster recovery planning, social engineering and different attacks associated with it, and security policies. Upon course completion, you will have gained necessarily knowledge to help prepare them for the Security+ (SY0-201) certification.

Encryption Protocols and Hashing .......... 1077_001
Public Key Cryptography ...................... 1077_002
Risk Assessments .................................. 1077_003
Redundancy Planning ........................... 1077_004

- ACLs .......................................................... 1074_001
- Access Control Methods ..................... 1074_002
- Remote Access Security ...................... 1074_003
- Physical Security .................................. 1074_004
- OS Hardening .......................................... 1074_005
- Application Security ............................. 1074_006
- Web Application Security ..................... 1074_007
- Email Security ........................................ 1074_008

Highlights different types of security namely Remote Access, physical, application, Web application, and e-mail security. The other topics discussed in depth in this course are ACLs and OS hardening. Under OS hardening, you will learn about patches and patch management, service packs, Linux Hardening versus Windows Hardening, and how to create security templates to secure the operating system.

Access Control Methods ..................... 1074_002
Remote Access Security ...................... 1074_003
Physical Security .................................. 1074_004
OS Hardening .......................................... 1074_005
Application Security ............................. 1074_006
Web Application Security ..................... 1074_007
Email Security ........................................ 1074_008
Incident Response ................................. 1077_005
Disaster Recovery ...................................... 1077_006
Social Engineering ...................................... 1077_007
Security Policies......................................... 1077_008

■  Strata IT
Fundamentals
(FC0-U41) Series

The System Unit, CPU, RAM and Storage Options
Course Number: 1426
Time: 135 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 3 Labs

Delve into preparing for the Strata IT Fundamentals exam as you get an outline of the FC0-U41 exam, certificates, technology and hardware, installation process, security, and preventative maintenance procedures. Look into the PC and how it works as you study different computer types, the computing process, the System Unit, connecting the monitor, USB and Firewire, and connectivity. Taking a closer look at the System Unit, you’ll explore how to work within it, ESD, the motherboard, power supply and connections, drives, and ways to cool the system. The remainder of your time will be spent learning about CPU, RAM, and storage options. The storage options section covers storage types, their function, their strengths and weaknesses, and alternative storage options like network attached storage, the storage area network, and RAID. Prepare for the FC0-U41 certification exam.

The Visible PC and How It Works ............... 1426_001
Inside the System Unit .............................. 1426_002
The CPU and RAM ................................. 1426_003
Understanding Storage Options ............... 1426_004
Alternative Storage Options .................. 1426_005

Operating Systems, User Accounts, Windows Basic Training, Software Installation, System Maintenance and Printers
Course Number: 1427
Time: 135 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 2 Labs

Taking a look at the operating system, you’ll look beyond the hardware to the software studying how to install and maintain the software. In the software installation section, you’ll learn how to install Windows 7, how to conduct a clean install, the steps to upgrade and update the system, about proper documentation, digital rights management, and how to perform a clean uninstall. From there, you’ll get into managing user accounts, Windows basic training, system maintenance, and printers. The Windows basic training section explains different power settings, colors and themes, icons, screen resolution, organizing data, adding folders, and moving them. These topics will aid you in preparing for the Strata IT Fundamentals (Global) certification exam.

The Operating System ............................. 1427_001
Managing User Accounts .......................... 1427_002
Windows Basic Training ............................ 1427_003
Software Installation ............................... 1427_004
Performing System Maintenance ............... 1427_005
Printers .............................................. 1427_006

Video, Multimedia, Wireless, Networking, Internet Access, Security and Green IT
Course Number: 1428
Time: 150 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 3 Labs

Round out your preparation for the FC0-U41 certification exam as you study video, multimedia, networking concepts, and security. The networking section encompasses wireless topics, particularly radio frequency, Bluetooth, 802.11, and wireless settings and issues; networking topics; and topics covering accessing the Internet as in customization, cookies, phishing, plug-ins, and VoIP. The multimedia section provides you with details on compression, MIDI/ FM synthesis, Web cams, sound card drivers, headsets, and front panel connectors. Also are you interested in learning more about Green IT? In that section, you’ll learn ways to preserve power, maintain systems, work in the cloud, properly dispose of technology, and other power saving tips. With these topics, you will increase your knowledge of IT fundamentals, and prepare for the FC0-U41 exam.

Video ................................................. 1428_001
Multimedia ........................................... 1428_002
Wireless .............................................. 1428_003
Networking .......................................... 1428_004
Accessing the Internet ............................. 1428_005
Security .............................................. 1428_006
Green IT ............................................ 1428_007
The CWNA (Certified Wireless Network Administrator) has a firm foundation in the infrastructure of wireless LAN technology. To be prepared for the CWNA certification exam, students need to understand wireless networking basics. In this video training, students will be introduced to the CWNP certification where they will consider the benefits of the certification, how to prepare for it, and the ways in which the wireless industry has progressed. The latter portion of the course focuses on the basics of WLANs, wireless networks, and radio frequency. In looking at RF, students are provided with details on waves and wave characteristics, reflection and refraction, absorption, isotropic radiator, SNR and RSSI, and fade margin just to name a few topics. Upon the completion, students will understand some of the essential concepts needed to excel in working with wireless networks.

Wireless Network Administration .................. 1078_001
Wireless Network Types............................. 1078_002
WLAN Applications.................................. 1078_003
Industry Organizations.............................. 1078_004
RF Fundamentals ..................................... 1078_005
RF Behavior .......................................... 1078_006
RF Mathematics ...................................... 1078_007
RF Measurements .................................... 1078_008

To solidify students understanding of wireless networking basics, this LearnSmart course begins by reviewing wireless network terminology and physical layers. Referring to the latter of the two, you will concentrate on IEEE 802.11-2007. From there, students will find descriptions on CSMA/CA and channel access methods, how to format IEEE 802.11 frames and work with the IEEE 802.11 state machine. For the remaining topics, students will explore WLAN service sets, how to locate WLANs, and how to execute power management. To become a Certified Wireless Network Administrator, students have to pass the CWNA certification exam; this preparatory course aims to teach students core concepts needed to pass that exam.

Terminology Review ................................. 1080_001
IEEE 802.11-2007 Physical Layers ............... 1080_002
Understanding CSMA/CA .......................... 1080_003
Channel Access Methods ......................... 1080_004
IEEE 802.11 Frames ............................... 1080_005
IEEE 802.11 State Machine ..................... 1080_006
WLAN Service Sets ............................... 1080_007
Locating WLANs.......................... 1080_008
Power Management......................... 1080_009

### Access Points, Infrastructure Hardware, Power Management, WLAN Client Hardware, PoE, WLAN Client Hardware, Design Models, & Alternate WLAN

#### Architectures for the CWNA

Course Number: 1081
Time: 240 Minutes

In this video training, a range of topics are covered. Begin by looking at autonomous access points, access point modes, SOHO access point features, and how to install and manage access points. Then shift your attention to wireless networking hardware where it notes the infrastructure hardware, the mechanisms involved in PoE, WLAN client hardware, and design models for a wireless network. In the last portion of the course, you will learn about wireless network management systems and its common features, multi channel, single channel, and alternate WLAN architectures. Upon completion of this course, you will have strengthened your understanding of the wireless network infrastructure. The Certified Wireless Network Administrator has a firm foundation in the infrastructure of wireless LAN technology. To be prepared for the CWNA certification exam, you need to understand wireless networking basics and infrastructure.

- Access Points ............................................ 1081_001
- Infrastructure Hardware ..................................... 1081_002
- Power over Ethernet ........................................ 1081_003
- WLAN Client Hardware .................................... 1081_004
- Centralized Design Model.................................... 1081_005
- Wireless Network Management Systems .......... 1081_006
- Multi and Single Channel Architectures .......... 1081_007
- Alternate WLAN Architectures .................. 1081_008

### Site Surveying, WLAN Vulnerabilities, WLAN Security Solutions, Security Policies, & Troubleshooting WLANs for the CWNA

Course Number: 1082
Time: 270 Minutes

The Certified Wireless Network Administrator needs to understand the backbone and infrastructure of wireless LAN technology. Through this LearnSmart course, students will learn concepts and skills necessary to help prepare for the CWNA certification exam. See discussions on surveying basics through site surveying tools; tools, techniques, and tips for gathering information across the network; and further details on surveying. Then your learning will continue as you address WLAN vulnerabilities and issues by presenting solutions and the steps to troubleshooting. You will also find descriptions on how to secure the network through security policies. Gain instructions on a number of wireless networking concepts to help better prepare you to become CWNA certified.

- Site Surveying Toolkit.......................... 1082_001
- Information Gathering............................... 1082_002
- Performing the Survey............................. 1082_003
- Documenting the Survey............................ 1082_004
- Advanced Site Surveys.............................. 1082_005
- WLAN Vulnerabilities .............................. 1082_006
- Current WLAN Security Solutions ............. 1082_007
- Security Policies................................. 1082_008
- Troubleshooting WLANs....................... 1082_009

### Wireless Security Professional (PW0-204) Series

#### Security Fundamentals, Network Management Tools and Monitoring, & Wireless Protocol

Course Number: 1048
Time: 270 Minutes
Number of Quizzes: 2 Quizzes

This LearnSmart course addresses the various weaknesses in wireless networking and how to implement security solutions to address them. This course allows you to gain the insight needed to prepare for the CWSP PW0-204 exam by focusing on the concepts behind security, how to use WLAN Discovery, and the tools used for network management particularly computer management and command line tools and third-party analyzers. Some of the security topics covered are share enumeration, the role of NetStumbler, and wireless protocol analyzers in security.

- Security Principles and Terms .................. 1048_001
- WLAN Discovery................................. 1048_002
- Using NetStumbler................................. 1048_003
- Password Retrieval................................. 1048_004
- Share Enumeration................................. 1048_005
- Network Management Tools ..................... 1048_006
- Wireless Protocol Analyzers .................. 1048_007
- Network Monitors................................. 1048_008
OS Exploits, Hacking Tools, Unauthorized Access, Attacks, & Legalities for the Certified Wireless Security Professional
Course Number: 1049
Time: 210 Minutes
Number of Quizzes: 2 Quizzes

In this video training, students will learn to distinguish and combat different intrusion methods. They are provided with an overview of OS fingerprinting and port scanning, LANguard network security scanner, WLAN hacking tools, traffic pattern analysis, RF jamming, data flooding, infrastructure misconfiguration, and more. Alongside that discussion on intrusion, students will also go through presentations on the legalities associated with it by looking at the Federal Privacy Act, Cyber Security Enhancement Act, HIPAA, and state laws. Altogether, the topics covered will help students to prepare for the CWSP PW0-204 exam.

OS Exploits ........................................ 1049_001
Hacking Tool Kit ................................... 1049_002
Information Gathering ............................ 1049_003
Unauthorized Access .............................. 1049_004
Denial of Service ................................... 1049_005
Attack Methods .................................... 1049_006
Intrusion Legalities ................................. 1049_007

Course Number: 1050
Time: 210 Minutes
Number of Quizzes: 2 Quizzes

Prepare for the CWSP PW0-204 exam. A majority of your training focuses on security, functional, and general policies. Another portion is dedicated to risk assessment where you will explore the definition of a risk, how to protect assets and prevent threat, and how to track risks. To start a discussion on authentication design, you will find explanations on the guidelines and baselines required. The remainder of that discussion looks at the implementation of authentication and how to monitor security and the response procedures executed to address a threat.

Security Policies .................................. 1050_001
General Policies ................................. 1050_002

Encryption, WEP, TKIP, 802.1x, EAP, WPA, 802.11i, VPN, IPSec, SSH2, & Mobile IP for the Certified Wireless Security Professional
Course Number: 1051
Time: 270 Minutes
Number of Quizzes: 2 Quizzes

Encryption is an effective security method that all network administrators should thoroughly understand how to implement on a network. You will study the different types of encryption and how to configure them specifically addressing wireless encryption standards, WEP, TKIP, EAP, and WPA. You will also look at the functionality of VPNs and the tools associated with them like IPSec, SSH2, and mobile IP. This course is a preparatory course for the CWSP PW0-204 exam.

Encryption ........................................ 1051_001
Wireless Encryption Standards ................ 1051_002
WEP and TKIP .................................... 1051_003
Implementing WEP and TKIP ................. 1051_004
802.1x/EAP ........................................ 1051_005
EAP Processes and Types ...................... 1051_006
WPA/802.11i ........................................ 1051_007
Introducing VPNs ............................... 1051_008
IPSec, SSH2, and Mobile IP ................. 1051_009

Segmentation Devices, Security Solutions, RADIUS, & WLAN Authentication for the Certified
Course Number: 1052
Time: 120 Minutes
Number of Quizzes: 2 Quizzes

Add insight that you will need to prepare for the CWSP PW0-204 exam. You will specifically look at three areas: segmentation devices, security solutions, and authentication. Topics connected to segmentation devices include routers and switches, VPN concentrators, firewalls, and gateways. In addressing additional security solutions, you are provided with solutions by solution type: IDS, thin clients, authenticate DHCP services, and then honeypots. The authentication section covers RADIUS and WLAN authentication.
authentication and the processes and tools associated with each authentication type.

Segmentation Devices .................................. 1052_001
Additional Security Solutions IDS ..................... 1052_002
RADIUS Authentication Capabilities .................... 1052_003
WLAN Authentication .................................. 1052_004

Wireless Technology Specialist (CWTS) (PW0-070) Series

Wireless Technologies, Regulatory Agencies, Standards, RF Fundamentals, Antennas, Cabling, Physical Layers and Topologies
Course Number: 1457
Time: 105 Minutes
Number of Quizzes: 2 Quizzes

Study wireless communications to come away with an understanding of the earliest wireless signals, the wireless certifications associated with wireless communications, the benefits of wireless, and wireless technologies. You’ll also cover regulatory agencies and standards, antennas and cabling, and physical layers and topologies. You’ll spend a good amount of time learning about RF fundamentals. In that section, you’ll explore waves, gain and amplification, loss and attenuation, VSMR and return loss, free space path loss, decibels, rules of 10 and 3, reflection, refraction, scattering, and diffraction. This training will help prepare you for the Wireless Technology Specialist (formerly PW0-070) certification exam, and teach you wireless networking concepts.

Wireless Communications ...................... 1457_001
Wireless Technologies ....................... 1457_002
Regulatory Agencies and Standards ............. 1457_003
RF Fundamentals ............................ 1457_004
Antennas and Cabling ...................... 1457_005
Physical Layers and Topologies ............ 1457_006

802.11, Authentication, Association, Infrastructure, Endpoint Hardware, Wireless LAN Controllers and Configuring Access Points
Course Number: 1458
Time: 165 Minutes
Number of Quizzes: 2 Quizzes

The Wireless Technology Specialist (formerly PW0-070) certification exam from CWNP ensures that you have the knowledge and skill to support wireless networks. Learn about stations, service sets, the distribution system, locating a network, CSMA/CD CSMA/CA, carrier sense, interframe spacing, and dynamic rate switching. Topics associated with the 802.11 network address are the 802.11 frame and 802.11 infrastructure solution, which explains wireless LAN routers, the wireless bridge, wireless controllers, PoE switches, standard terminology, and PoE installation. You’ll dig into these topics as well as authentication and association, and infrastructure and endpoint hardware. You’ll wrap up your training by studying wireless LAN controllers and how to configure APs at the CLI and in the GUI. Prepare for the Wireless Technology Specialist exam.

802.11 Network Address ......................... 1458_001
Authentication and Association .................... 1458_002
802.11 Frames ........................................ 1458_003
802.11 Infrastructure Solution .................... 1458_004
Infrastructure and Endpoint Hardware ........ 1458_005
Understanding Wireless LAN Controllers ... 1458_006
Configuring APs at the CLI ..................... 1458_007
Configuring APs in the GUI ..................... 1458_008

Roaming Wireless Networks, OS Clients, Cisco Clients, Wireless LAN Vulnerabilities and Wireless Security Components
Course Number: 1459
Time: 90 Minutes
Number of Quizzes: 2 Quizzes

Cover roaming wireless networks as you study the OSI model, intra-controller roaming, and mobility groups and mobility group configuration. You will go through discussions on installing and administering Cisco clients; and configuring OS clients, which covers the XP wireless wizard, manually adding a wireless network, the MAC OS X wireless client, Linux clients, and the Windows 7 wireless client. You will also learn about wireless LAN vulnerabilities and wireless security components. In the wireless security components section, you will gain an understanding of the Wi-Fi protected setup, using encryption, PCI and HIPPA compliance, using WIPS, captive portals, and VPNs. All in all, the topics discussed in this training will help prepare you for the Wireless Technology Specialist exam.

Roaming Wireless Networks .................. 1459_001
Configuring OS Clients ....................... 1459_002
Installing / Administering Cisco Clients ...... 1459_003
Wireless LAN Vulnerabilities ............... 1459_004
Wireless Security Components ............. 1459_005
802.11i, EAP, Encryption, Security Tools, WCS, Navigator, Site Surveys, Troubleshooting, Spectrum and Protocol Analyzers
Course Number: 1460
Time: 195 Minutes
Number of Quizzes: 4 Quizzes

Look at the relationship between 802.11i, EAP, and encryption methods. In the EAP section, you will specifically focus on EAP types like EAP-TLS and EAP-MD5. From there, you’ll delve into the 802.11i infrastructure installation, how to configure secure clients, and weak security tools. You will also spend time learning about the WCS and the Navigator, site survey kits, wireless LAN problems, and spectrum and protocol analyzers. The discussions in the site survey kits section go over site survey tools, protocol analyzers, active and passive tools, equipment for outdoors, and how to perform site surveys. There’s a large amount of information covered in this training. Be sure to take your time going through it so that you can absorb all the knowledge and gain new skills in preparation for the Wireless Technology Specialist exam.

802.11i............................................................. 1460_001
EAP Types Explained........................................ 1460_002
Encryption Methods........................................... 1460_003
802.11i Infrastructure Installation......................... 1460_004
Configuring Secure Clients .................................. 1460_005
Weak Security Tools.......................................... 1460_006
WCS and Navigator............................................ 1460_007
Site Survey Kits............................................... 1460_008
Performing Site Surveys...................................... 1460_009
WCS and WLC Troubleshooting......................... 1460_010
Common Wireless LAN Problems.......................... 1460_011
Using Spectrum and Protocol Analyzers................ 1460_012

ECouncil

Certified Ethical Hacker (312-50) 2008 Series
Security Terminology, Hacking Legalities, Footprinting and Scanning for Gold
Course Number: 1195
Time: 270 Minutes
Number of Quizzes: 1 Quiz

The EC-Council offers a certification to become a Certified Ethical Hacker by assessing your information security knowledge in the 312-50 exam. Learn the core principles behind ethical hacking about the security triangle, security terminology, the classification and categorization of hackers, types of hacks, how to research vulnerabilities, and the stages of ethical hacking. It is also crucial to understand the legalities associated with hacking as in understanding the federal laws particularly 1029 and 1030 fraud laws, being aware of known hacking sites, and following hack reports. Having cemented your understanding of these foundational topics, continue your training and study footprinting concepts and tools, and different scanning techniques to locate open ports, identify services, prepare proxies, and discover vulnerabilities.

Ethics and the Hacker................................. 1195_001
Hacking Legalities...................................... 1195_002
Footprinting Concepts................................. 1195_003
Web Footprinting Tools................................. 1195_004
Local Footprinting Tools.............................. 1195_005
Scanning for Gold...................................... 1195_006

Scanning Tools, Enumeration, Passwords, Privileges, Trojan Horses and Sniffers
Course Number: 1196
Time: 270 Minutes
Number of Quizzes: 2 Quizzes

As a Certified Ethical Hacker, your goal is to secure the system against attack. To successfully protect a system, you need to know the skills, techniques, and knowledge associated with enumeration, using and cracking passwords, ownership privileges, Trojan horses, and sniffers. Enumeration, passwords, and ownership privileges are used to secure a network by placing restrictions on the network. Learn about password cracking tools like LAN Manager Hashes, sniffer applications, and scanning tools such as the Angry IP scanner, MBSA, and Nmap switches to maintain and monitor information security. Also a part of your training is dedicated to teaching you about Trojan horses where you will learn what they are, the different types, common programs that include them, and the role of Netcat. Prepare with these topics for the 312-50 exam.

Mastering Scanning Tools............................... 1196_001
Enumeration............................................. 1196_002
Passwords............................................... 1196_003
Password Cracking Tools.............................. 1196_004
Ownership Privileges.................................. 1196_005
Trojan Horses......................................... 1196_006
Sniffers.................................................. 1196_007
physical security. Increase your knowledge concerning monitoring, alarms, tracking tools, and other forms of how to implement it using locks, authentication, video of physical security where you will study its policies and information security, you will also gain an understanding to respond. Along with learning about these threats to signs that indicate their presence, virus phases, and how will also explore how viruses and worms function, the WEP, WPA, EAP, SQL, and the wireless network. You Take a closer look at different hacking attacks to the

**ARP, MAC, DNS, Dos Attacks, Social Engineering, Session Hijacking, Hacking Web Servers and Cracking Passwords**

Course Number: 1197  
Time: 330 Minutes  
Number of Quizzes: 2 Quizzes

Immerse yourself in information security as you study the different types of attacks, the countermeasures, and attack tools associated with DoS and Web servers; look at the relationship between ARP, MAC, and DNS; and delve into the details of social engineering as you focus on dumpster diving, shoulder surfing, reverse social engineering, phishing attacks, URL obfuscation, and hexadecimal conversion. There is also time dedicated to session hijacking where you will be exposed to the process of hijacking, the differences between hijacking and spoofing, hijacking programs, and the dangers of session hijacking. Through the details covered in these topics, you will begin mastering information security techniques and skills that can be applied to protect a system or towards preparing for your Certified Ethical Hacker (312-50) exam.

**ARP, MAC, and DNS** ........................................... 1197_001  
**DoS Attacks** .................................................. 1197_002  
**Social Engineering** ......................................... 1197_003  
**Advanced Social Engineering** ............................ 1197_004  
**Session Hijacking** ........................................... 1197_005  
**Web Servers** .................................................. 1197_006  
**Hacking Web Servers** ....................................... 1197_007  
**Web Applications** ............................................ 1197_008  
**Cracking Web Passwords** .................................. 1197_009

**SQL Injections and Attacks, WEP Attacks, WPA and EAP, Viruses, Worms and Physical Security**

Course Number: 1198  
Time: 300 Minutes  
Number of Quizzes: 2 Quizzes

Take a closer look at different hacking attacks to the WEP, WPA, EAP, SQL, and the wireless network. You will also explore how viruses and worms function, the signs that indicate their presence, virus phases, and how to respond. Along with learning about these threats to information security, you will also gain an understanding of physical security where you will study its policies and how to implement it using locks, authentication, video monitoring, alarms, tracking tools, and other forms of physical security. Increase your knowledge concerning these topics to prepare for EC-Council’s Certified Ethical Hacker (312-50) exam.

**SQL Injections** ................................................. 1198_001  
**SQL Attacks** .................................................. 1198_002  
**Wireless Vulnerabilities** .................................... 1198_003  
**WEP Attacks** .................................................. 1198_004  
**WPA and EAP** .................................................. 1198_005  
**Viruses and Worms** .......................................... 1198_006  
**Physical Security Policies** ................................... 1198_007  
**Implementing Physical Security** ............................ 1198_008

**Linux, Intrusion Monitoring Systems and Buffer Overflows**

Course Number: 1199  
Time: 195 Minutes

Prepare for EC-Council’s Certified Ethical Hacker (312-50) exam by training in Linux, intrusion monitoring systems like different firewalls and intrusion prevention systems, and buffer overflows. For the Linux presentations, you are provided with instructions in how to install it, configure firewall settings, create users, and execute scanning. Building on the discussion on intrusion monitoring systems, you will gain an understanding of how to evade them through the use of honeypots and IDS tools. In the section on buffer overflows, you will learn what buffer overflows are, how to locate them, the different types that exist, and how to execute countermeasures.

**Linux** .......................................................... 1199_001  
**Compiling Linux** ............................................. 1199_002  
**Intrusion Monitoring Systems** ............................... 1199_003  
**Evading IMS** .................................................. 1199_004  
**Buffer Overflows** ............................................. 1199_005

**Cryptography, Multi-Hat Hacking, Computer Forensics, Hack Prevention and Security**

Course Number: 1200  
Time: 225 Minutes  
Number of Quizzes: 1 Quiz

EC-Council’s Certified Ethical Hackers know how to think like a hacker, but reverse those techniques to secure a system. Learn about security policies and hack prevention by disabling and configuring services, using CACLS, setting permissions using GUI, and enabling EFS. You will train in computer forensics specifically information collection, preserving state, BackTrack’s role in forensics, and evasion. Add to your knowledge of hacking techniques
by focusing on multi-hat hacking in the form of Bluetooth hacking, iPhone hacking, RFID hacking, and online game hacking. There is also a large amount of time dedicated to the topic of cryptography focusing on cryptography concepts, steganography, DES, and asymmetric and symmetric encryption. Altogether, these topics will aid you in your preparation for the 312-50 exam.

Cryptography................................................ 1200_001
Symmetric Cryptography ............................... 1200_002
Multi-Hat Hacking...................................... 1200_003
Computer Forensics .................................... 1200_004
Hack Prevention......................................... 1200_005
Security Policies........................................... 1200_006

**ITIL®**

### ITILv3® Foundation Series

**Service Management, Service Strategy, Service Level Management, Supplier Management, Capacity Management and Continuity Management**

Course Number: 1261  
Time: 240 Minutes  
Number of Quizzes: 3 Quizzes

Learn the fundamentals of service management as you study the service lifecycle, the definition of service, the phases of service management, the RACI matrix, and influences on service management. From there, you’ll continue a discussion on service strategy as you look at its objectives, value creation, utility versus warranty, IT governance, types of service providers, the service pipeline and catalog, as well as service design topics. You will then transition into discussing service level, supplier, information security, capacity, and IT service continuity management. Altogether, the topics covered will help prepare you for the ITIL® v3 Foundations exam.

Service and the Service Lifecycle.............. 1261_001  
Understanding Service Management........... 1261_002  
Service Strategy ..................................... 1261_003  
Service Design ....................................... 1261_004  
Service Level Management .................... 1261_005  
Supplier Management ............................. 1261_006  
Information Security Management ............ 1261_007  
Capacity Management............................ 1261_008  
IT Service Continuity Management........... 1261_009

**Service Asset, Configuration Management, Change Management, Release and Deployment**

Course Number: 1262  
Time: 165 Minutes  
Number of Quizzes: 1 Quiz

Concentrate on service asset and configuration, change, release and deployment, knowledge, and ITIL management. Highlighting the change management section, you’ll find discussions on the definition of service change, types of service change, the change model, types of change requests, and the change advisory board. You will also learn about service desks, which is associated with knowledge management. In this section, you will study service operation scope, service operation functions, service desk objectives, the local service and virtual service desk, staffing considerations, and service desk required skills. All in all, you will little by little add to your understanding of service management to prepare for the ITIL® v3 Foundations exam.

Service Asset/Configuration Management.... 1262_001  
Change Management................................. 1262_002  
Release and Deployment Management ...... 1262_003  
Knowledge Management.......................... 1262_004  
Service Desk............................................ 1262_005  
ITIL® Management.................................... 1262_006

**Incident Management, Problem Management, Requests, Permissions, Events, Continual Service Improvement, Technology, Architecture and ITIL Certification**

Course Number: 1263  
Time: 165 Minutes  
Number of Quizzes: 2 Quizzes

Go through considerations, models, processes, activities, and roles associated with incident management and problem management. After those discussions, you will focus your attention on requests, permission, and events where you’ll learn about service requests, request fulfillment, access management, event management, and event progression. Time is also spent training in continual service improvement, which includes the topics of feedback loops, the CSI model, measuring services, key responsibilities, and key performance indicators. Then you’ll study the IT service management toolset, the integrated CMS, service desk tools, dashboards, and technology considerations. To wrap up the course, you are provided with details concerning the Foundation certificate, qualifications, alternate certification routes,
and reference materials to help prepare you for the ITIL® v3 Foundations exam.

Incident Management.......................... 1263_001
Problem Management ......................... 1263_002
Requests, Permission, and Events........... 1263_003
Continual Service Improvement.............. 1263_004
Technology and Architecture ............... 1263_005
ITIL® Certification ............................ 1263_006

Windows Server 2008

Server 2008 (70-640) Series

Active Directory Concepts for Server 2008

Basic Active Directory and DNS Concepts for Server 2008

Course Number: 718
Time: 165 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 13 Labs

The focus of this course is Server Core and the server roles that it is capable of installing. You will be instructed on the basics of Active Directory and how to use the Domain Naming System effectively. Active Directory is responsible for DNS is used for organizing network resources. Cement your understanding of Active Directory and DNS by looking at how DNS integrates in with Active Directory for easier access to network resources through Active Directory storage and replication of DNS zone databases. Learn main concepts covered in the Server 2008 Active Directory (70-640) exam.

Course Overview.............................. 718_001
Installing Active Directory ................. 718_002
Server Core................................... 718_003
DNS........................................... 718_004
DNS Zones.................................... 718_005
AD DNS Integration ......................... 718_006

Advanced Windows Server 2008 Active Directory Concepts

Course Number: 719
Time: 255 Minutes
Number of Quizzes: 3 Quizzes
Number of Labs: 15 Labs

Take a closer look at the details of Active Directory. You will cover the details surrounding its infrastructure, conducting migration and replication, Active Directory sites, and the role of the global catalog server. Walk through discussions on security based on Active Directory trusts, RODCs, permissions, and authentication. There is also a time dedicated to studying automation scripts and Active Directory templates. Both tools will aid in increasing the speed of account creation, and help when duplicating properties, and membership to groups for individual accounts. Train in all these advanced Active Directory features to gain the skills and knowledge needed to prepare for the 70-640 exam.

Domain Name Resolution..................... 719_001
Active Directory Infrastructure............... 719_002
Active Directory Migration.................. 719_003
Active Directory Sites....................... 719_004
Active Directory Replication ............... 719_005
Global Catalog Server....................... 719_006
Active Directory Trusts..................... 719_007
Read-Only Domain Controllers ............. 719_008
Active Directory Accounts.................. 719_009
Active Directory Groups..................... 719_010
Active Directory Delegation ............... 719_011
Automation.................................. 719_012
Active Directory Templates................ 719_013

Group Policy Concepts & Virtualization for Windows Server 2008

Course Number: 721
Time: 150 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 8 Labs

Prepare for the 70-640 exam by learning the concepts behind Group Policy and virtualization. Go through explanations on how Group Policy functions in Active Directory, how to maintain Group Policy, and the steps taken to implement security settings through audit and account policies. Audit policies monitor specific events occurring on the network for specific users or groups; while account policies are used for setting parameters on how computer and user accounts interact. You will also find discussions on virtualization concentrating on virtualized roles, how to use Hyper-V, and creating virtual machines for Server 2008.

Group Policy................................. 721_001
Managing Group Policy....................... 721_002
Maintaining Group Policy.................... 721_003
Auditing..................................... 721_004
Account Policies............................. 721_005
Virtualization............................... 721_006
**Active Directory Role Services for Windows Server 2008**

Course Number: 722  
Time: 130 Minutes  
Number of Quizzes: 2 Quizzes  
Number of Labs: 6 Labs

This course identifies the different Active Directory role services and their functions. Some of the services covered include Rights Management Services, LDAP, Certificate Services, and more. Some of the services covered, AD RMS, AD LDS, and LDAP, are used with applications to safeguard and store data. Along those lines, certificate services deals with accessing that data. Certificates aid in the authentication process requiring that administrators know how to administer certificate authorities and request for digital certificates. Prepare for the 70-640 exam by thoroughly understanding these services available with Server 2008.

- Lightweight Directory Services .................. 722_001  
- Rights Management Services .................. 722_002  
- Federation Services .................. 722_003  
- Configuring AD FS .................. 722_004  
- Certificate Services .................. 722_005  
- Administering CAs .................. 722_006  
- Certificate Enrollment .................. 722_007

**Public Key Infrastructure & Performance Monitoring for Windows Server 2008**

Course Number: 723  
Time: 135 Minutes  
Number of Quizzes: 1 Quiz  
Number of Labs: 4 Labs

The objective of this course is to aid in preparing you to pass the Server 2008 Active Directory (70-640) exam. You will specifically focus on securing your server, the different ways to monitor your server’s performance, as well as how to back up and recover your server. The security portion concentrates on the processes pertaining to key archival in case of key lost and certificate revocation. As an administrator, these are helpful tools that you want to know. Following security are discussions on Active Directory maintenance and performance monitoring. Performance monitoring is executed using the Task Manager, the Resource Monitor, Repadmin, and diagnostic tools like the Event Viewer. You will also find the details and processes on data recovery, server backup, and object recovery helpful if ever you have to restore Server 2008.

- Public Key Archival .................. 723_001  
- Certification Revocation .................. 723_002  
- AD Maintenance .................. 723_003  
- Monitoring Performance .................. 723_004

**Server 2008 Applications Infrastructure (70-643) Series**

**Deployment and Virtualization of Windows Server 2008**

Course Number: 728  
Time: 165 Minutes  
Number of Quizzes: 2 Quizzes  
Number of Labs: 5 Labs

Prepare to pass your Windows Server 2008 Server Administrator (70-643) exam. You will begin by following a discussion on the 70-643 exam including the prerequisites and the significance of being certified as a MCTS or MCITP. In the next section, other topics covered include deploying images, configuring deployment, and executing Windows activation. You will also spend time in Hyper-V learning how to work with it by executing tasks such as checking its status, configuring global settings, and copying a virtual machine. Walk step by step through the process of implementing Windows Server 2008 on a network.

- Introduction .................. 728_001  
- Deploying Images .................. 728_002  
- Configuring Deployment .................. 728_003  
- Windows Activation .................. 728_004  
- Hyper-V .................. 728_005  
- Working with Hyper-V .................. 728_006

**High Availability, Storage Technologies & Terminal Services for Windows Server 2008**

Course Number: 729  
Time: 165 Minutes  
Number of Quizzes: 2 Quizzes  
Number of Labs: 8 Labs

Review the storage technologies, Remote Desktop, and Terminal Services available to use with Server 2008. Before focusing on those topics, you will spend some time learning high availability and how to configure it. In the discussion on Terminal Services, you will discover the basics, how to configure it, Terminal Services Licensing, and ways to monitor it. Depending on the combination of services and technologies used, you will increase your network’s ability to quickly access network resources. You
can expect high availability questions to show up on the 70-643 exam, so prepare by learning these topics.

High Availability ........................................... 729_001
Configuring Availability ................................... 729_002
Configuring Storage .......................................... 729_003
Terminal Services ............................................. 729_004
Remote Desktop ................................................. 729_005
TS Licensing and Configuration ............................ 729_006
Monitoring TS .................................................. 729_007

Terminal Services and IIS for Windows Server 2008
Course Number: 730
Time: 150 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 12 Labs

Prepare for the 70-643 exam by concentrating on Web capabilities and communications through Web applications, Terminal Services, and the role of Internet Information Services (ISS). In discussing Terminal Services, you will look at Terminal Services gateways, application availability, and Terminal Services Load Balancing. IIS is a Web server that supports specific protocols. In the IIS section, you will focus on the history, determine the ways that the IIS 7.0 differs from the IIS 6.0 architecture, and how the IIS 7.0 is managed by an administrator. There is also time dedicated to exploring the relationship between Web applications and IIS on the Web server.

Terminal Services Gateways ............................... 730_001
Application Availability ...................................... 730_002
TS Load Balancing ............................................ 730_003
IIS 7.0 .......................................................... 730_004
Managing IIS 7.0 .............................................. 730_005
Web Applications .............................................. 730_006
Managing Web Sites .......................................... 730_007

Windows Media Server & SharePoint Services for Windows Server 2008
Course Number: 731
Time: 135 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 8 Labs

Prepare for your Windows Server 2008 Server Administrator (70-643) exam. You will find details concerning Web servers, the Windows Media server, and SharePoint services. In a network, to enable file transferring between computer systems, administrators will need FTP or SMTP. Both these protocols fit within IIS - a Web server. In addition to enabling file transfer across the network, delve into Web authentication, URL authorization, and SSL for Web server security. Look at the streaming media server and the streaming media services role to do streaming audio and video across the network. This server functions as a layer on top of IIS as does SharePoint services. In the SharePoint section of the course, you will learn about its collaborative capabilities and how to utilize it as a content management system for your network.

File Transfer Protocol ........................................ 731_001
Simple Mail Transfer Protocol ............................ 731_002
Web Server Security .......................................... 731_003
Windows Media Server ...................................... 731_004
Windows SharePoint Services .............................. 731_005
SharePoint Content Management ........................ 731_006

Server 2008 Enterprise Administrator (70-647) Series
Course Number: 732
Time: 165 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 2 Labs

You are provided with video instruction on the skills involved in maintaining a large integrated server solution. You will find an introduction to Server 2008 and Microsoft’s 70-647 exam, look at basic networking concepts concerning IP addresses, as well as about Active Directory and the various domain controller roles. In the section on IP addresses, you will delve into how to plan IP addresses, the difference between the IPv4 and IPv6, and the qualities of special IPv6 addresses and DHCP. You will also study different naming conventions offered through WINS for NetBIOS computer names and DNS for domain names.

Introduction ..................................................... 732_001
Planning IP Addresses ........................................ 732_002
IP Versions ..................................................... 732_003
DNS Name Resolution ........................................ 732_004
WINS .............................................................. 732_005
Active Directory ............................................... 732_006
Domain Controller Roles .................................... 732_007

Course Number: 733
Time: 130 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 2 Labs

Prepare to pass your Server 2008 Enterprise Administrator (70-647) certification exam. Focus on the advanced features within Server 2008 for instance using Remote Access and applying Network Access Protection. You will start by going through Active Directory replication and the role of sites, considerations on where to place the Active Directory server, and planning server administration with the use of enterprise, server, and desktop administrators. Then shift your attention to Group Policy, its architecture, its applications, and how to plan GPOs. There’s also a section on resolution isolation. Altogether, these topics will contribute to your understanding of how to properly manage a Server 2008 network.

AD Replication and Sites .................. 733_001
AD Server Placement ..................... 733_002
Planning for Administration .......... 733_003
Group Policy Architecture .......... 733_004
GPO Applications ..................... 733_005
Resolution Isolation .................. 733_006
Remote Access ..................... 733_007
Network Access Policies .......... 733_008

Network Security & Public Key Infrastructure for Windows Server 2008

Course Number: 734
Time: 135 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 2 Labs

You are given instructions on how to secure the network covering such concepts as encryption and Public Key Infrastructure. Start with perimeter networks, which covers Internet threats, Internet security, internal network, NAT security, and perimeter services. The discussion on network security also includes certificate services as a component of PKI. In addition to security, you will also concentrate on the process of migrating domains and forests, deploying the Branch Office, and application deployment. Learning these skills and concepts will aid in your preparation for Microsoft’s 70-647 certification exam.

Perimeter Networks .................. 734_001
Migrating Domains and Forests .......... 734_002
Deploying the Branch Office .......... 734_003

Virtualization, Web and Terminal Services, & Remote Desktop for Windows Server 2008

Course Number: 735
Time: 133 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 5 Labs

Windows Server 2008 has much to offer in the area of virtualization. Open up this topic by looking at the machines involved in virtualization, virtualization for applications, planning virtualization, troubleshooting it, and implementing remote connections. You will study Web and terminal services, and Web-based applications. In the Web-based applications section, you walk through Internet Information Services, which offers servers a collection of Internet-based services. You can expect Web and virtualization questions on Microsoft’s 70-647 exam. So be sure to solidify your understanding of this topic.

Virtualization for Applications .......... 735_001
Web-Based Applications .......... 735_002
Remote Connections .......... 735_003
Licensing Terminal Services .......... 735_004
Server Virtualization .......... 735_005
Planning Virtualization .......... 735_006
Troubleshooting Virtualization .......... 735_007

WSUS, User & Data File Management, & High Availability for Windows Server 2008

Course Number: 736
Time: 165 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 7 Labs

Get the complete training you need to prepare to pass your Server 2008 Enterprise Administrator (70-647) certification exam. Direct your attention to WSUS, managing files, and steps to increase high availability. WSUS is the service that enables administrators to deploy updates to network computers. In the discussion on file management, it is important to understand how the data is accessed, what to do if ever the data needs recovering, and the collaborative options available. There is also a portion dedicated to setting up user and groups in through Active Directory.

Windows System Update Services .......... 736_001
Server 2008 Network Infrastructure (70-642) Series

Basic Networking in Windows Server 2008
Course Number: 724
Time: 130 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 7 Labs

In this Server 2008 Network Infrastructure training, the basics of networking are covered looking at the infrastructure and its components. Start with the basics by learning about the Microsoft certification and its prerequisites, along with looking at an overview of the 70-642 exam. The next chapter covers the details included in network layers and the OSI model, and distinguishes the OSI model from the TCP/IP model. There is also plenty of information concerning IPv4 and IPv6, where you will look at the difference between the two, and how to configure them. The remainder of the course is spent studying DHCP by explaining its concepts and terminology, and the steps to configuring it.

Introduction ............................................. 724_001
Network Layers and OSI ................................ 724_002
IPv4 Addressing ....................................... 724_003
Configuring IPv4 ....................................... 724_004
IPv6 Addressing ....................................... 724_005
Understanding DHCP .................................. 724_006
Implementing DHCP .................................... 724_007

Course Number: 725
Time: 165 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 11 Labs

Learn all the skills required to maintain healthy and secure servers and routing options. You will specifically study the role of Remote Access and Domain Naming System, policies used to secure a network, and the routers and switches involved with routing. Contained in the routing discussion is an outline of routing concepts and protocols, the role of IPSec, and how to configure IPSec using rules. In the DNS section, you will learn about NetBIOS node types, DNS zones and zone transfers, configuring forward and reverse lookups, how to add records, and how to use the DNS Namespace. The final section concentrates on the different Remote Access methods.

IP Routing ............................................ 725_001
IPSec ...................................................... 725_002
Configuring IPSec ..................................... 725_003
DNS Defined ........................................... 725_004
Configuring DNS ..................................... 725_005
DNS Synchronization .................................. 725_006
Network Authentication ................................ 725_007
Remote Network Access .............................. 725_008

Course Number: 726
Time: 150 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 12 Labs

Focus on the concepts needed to understand Network Access Protection, Wireless Access, and how to use File Services. You will start by looking at NAP requirements, how to add NAP roles, NAP implementation methods, and the NAP diagram to understand how it works. The next section discusses wireless firewalls and wireless access by providing details on IEEE standards, 802.1X/RADIUS, firewall rules, and firewall properties. Dive into file servers and disk quotas by deepening your understanding of shares and permissions, how to create shares, the Distributed File Services, and how to apply quotas. By the end of this course, you will know how to properly configure these features in your Server 2008 Infrastructure in order to pass Microsoft’s 70-642 exam.

Network Access Protection ......................... 726_001
Configuring NAP ..................................... 726_002
Windows Firewall ..................................... 726_003
Wireless Access ....................................... 726_004
Configuring Wireless Access ...................... 726_005
File Services ........................................... 726_006
Distributed File System .............................. 726_007
Disk Quotas ............................................ 726_008
Backup Services, Monitoring and Troubleshooting in Windows Server 2008

Course Number: 727
Time: 150 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 18 Labs

Whenever administrators work with network resources, there are a number of threats they must combat. You will learn about shadow copying, steps to backing up data, how to share printers, the process of implementing a Windows Update, maintaining network monitoring, and how to troubleshoot by working in the Event Viewer. Shadow copying and backing up the data are part of the backup services where you will find demonstrations on how to restore previous versions, use VSSADMIN, install Windows Backup, and conduct system state backups. Overall, you will gain an understanding of how to protect your server, monitor, and troubleshoot it.

Shadow Copy ....................................... 727_001
Back up Data...................................... 727_002
Printer Sharing .................................. 727_003
Windows Update ............................... 727_004
Performance Monitoring.................... 727_005
Network Monitoring............................. 727_006
Troubleshooting ................................. 727_007

Server 2008 Active Directory (83-640) Series

Installing Active Directory, Server Core, DNS and AD DNS Integration in Server 2008

Course Number: 1378
Time: 135 Minutes
Number of Quizzes: 1 Quiz

The Configuring Windows Server 2008 Active Directory certification exam assesses individuals’ ability to successfully execute certain administrative tasks. To better understand this certification exam, go over the exam objectives and prerequisites, identify where this exam falls in certification, and start studying as you get an overview of Active Directory’s role in Server 2008. You will also study the process of installing Active Directory and working with Server Core. A large portion of this training focuses on DNS providing you with explanations on understanding DNS, DNS server settings, managing DNS, configuring DNS forwarding, covering the basics of DNS zones, zone delegation, zone transfers, Active Directory integration, and zone replication. Prepare for Microsoft’s certification exam.

Course Overview.................................. 1378_001
Installing Active Directory .................... 1378_002
Server Core...................................... 1378_003
DNS .................................................. 1378_004
DNS Zones ........................................ 1378_005
AD DNS Integration ............................. 1378_006

Domain Name Resolution, Active Directory and Global Catalog Server in Server 2008

Course Number: 1379
Time: 135 Minutes
Number of Quizzes: 2 Quizzes

To prepare you for configuring Active Directory in a Server 2008 environment, learn the Active Directory infrastructure, AD migration, AD sites, and AD replication. Along with Active Directory, you will find details on domain name resolution and the global catalog server. The Active Directory migration section provides you with details on the AD functional levels, 2008 domain and forest functionality levels, and how to decommission previous server versions. In the global catalog server section, you will delve into the concepts behind global catalogs, their location, group membership caching, creating a GC, universal group caching, user principal names, and adding an UPN suffix. All in all, these topics will help prepare you to sit for the Configuring Windows Server 2008 Active Directory certification exam offered by Microsoft.

Domain Name Resolution ........................ 1379_001
Active Directory Infrastructure ............... 1379_002
Active Directory Migration .................... 1379_003
Active Directory Sites .......................... 1379_004
Active Directory Replication ................... 1379_005
Global Catalog Server ........................... 1379_006

Active Directory Trusts, RODC, Active Directory and Automation in Server 2008

Course Number: 1380
Time: 165 Minutes
Number of Quizzes: 1 Quiz

Topics covered in this training include Active Directory trusts and templates, read-only domain controllers, automation, Active Directory accounts and groups, and Active Directory delegation. For the Active Directory trusts section, you will study the trust concept, the different types
distinguish from each other, how to establish forest trusts, trust settings, the steps verifying trust configuration, and how to configure trust security. In the section discussing RODCs, you will learn about the basics, how to install an RODC, create an account, setup and configure password replication policy, and implement RODC security. Gain the skills, knowledge, and experience needed to prepare for the Configuring Windows Server 2008 Active Directory certification exam.

Active Directory Trusts ....................... 1380_001
Read-Only Domain Controllers ............... 1380_002
Active Directory Accounts .................... 1380_003
Active Directory Groups ...................... 1380_004
Active Directory Delegation .................. 1380_005
Automation ....................................... 1380_006
Active Directory Templates .................. 1380_007

Group Policy, Auditing, Account Policies and Virtualization in Server 2008

Course Number: 1381
Time: 135 Minutes
Number of Quizzes: 1 Quiz

The Group Policy discussions explain how to implement Group Policy, and go over the process of applying policies, the impact of inheritance, how to tweak policy application, Group Policy loopback, and the ways to manage Group Policy using administrative templates. Other topics that you will focus on include auditing, account policies, and virtualization. In the auditing section, you will find demonstrations on how to audit with Group Policy, configure GPO auditing, and create an MIS package. Immerse yourself in all the details and tasks encompassed within Active Directory to prepare for the Configuring Windows Server 2008 Active Directory certification exam.

Group Policy ..................................... 1381_001
Managing Group Policy ....................... 1381_002
Maintaining Group Policy .................... 1381_003
Auditing ........................................... 1381_004
Account Policies .................................. 1381_005
Virtualization .................................... 1381_006

AD LDS, RMS, AD FS, Certificate Services, Administering CAs and Certificate Enrollment in Server 2008

Course Number: 1383
Time: 165 Minutes
Number of Quizzes: 2 Quizzes

These components are essential to configuring Active Directory are Lightweight Directory Services, Rights Management Services, Certificate Services, and Active Directory Federation Services (AD FS). In each of the services referenced, you will observe their function, how to install them, maintain them, and work with them. Branching from the basics of AD FS is a discussion on how to configure AD FS through the resource and account partners. Furthermore, you can take a look at certificate services as you focus on certificate enrollment, which covers device enrollment, certification authority, and user certificates. Learn the ins and outs of Active Directory to thoroughly prepare for the Configuring Windows Server 2008 Active Directory certification exam.

Lightweight Directory Services ............... 1383_001
Rights Management Services .................. 1383_002
Federation Services ......................... 1383_003
Configuring AD FS ......................... 1383_004
Certificate Services ......................... 1383_005
Administering CAs ......................... 1383_006
Certificate Enrollment ....................... 1383_007

Public Key Archival, Certification Revocation, AD Maintenance, Performance, Diagnostic Tools, Backup and Recovery in Server 2008

Course Number: 1384
Time: 165 Minutes
Number of Quizzes: 1 Quiz

Continuing the discussion on certificate services, learn about public key archival, which takes you through key recovery topics; and certification revocation, which emphasizes the role of the certificate authority and the online responder, OCSP certificates, and configuring the online responder. Build on your basic understanding of Active Directory tasks as you look at how to maintain it and monitor it using different diagnostic tools provided to you through the Event Viewer. Part of Active Directory maintenance is defragmenting AD, maintaining the database by moving files, backing up data, and recovering AD through various recovery methods. Deepen your understanding of managing and maintaining Active
Server 2008 R2 Update Series

Improvements in Active Directory & BranchCache for Windows Server 2008

Course Number: 694
Time: 120 Minutes
Number of Quizzes: 1 Quiz

This video training introduces and explains all the new features related to Server 2008 R2. You will study the PowerShell Active Directory module, different options available in the Active Directory recycle bin, relationships in Active Directory specifically offline domain joins, how to conduct audits, and how to work with managed service accounts. There is also a section dedicated to File and Print Services where you will find demonstrations on how to create and execute tasks using the File Server Resource Manager, the Distributed File System, and Print Services. Course topics focus on features of importance particularly Active Directory, BranchCache, and PowerShell.

PowerShell Active Directory Module .................. 694_001
Active Directory Recycle Bin .................. 694_002
Offline Domain Joins .................. 694_003
Auditing and GPO Changes .................. 694_004
Managed Service Accounts .................. 694_005
File and Print Services .................. 694_006
BranchCache .................. 694_007

DirectAccess, NPS & DNS for Windows Server 2008 R2

Course Number: 695
Time: 120 Minutes
Number of Quizzes: 1 Quiz

Find detailed explanations on the capabilities of Server 2008 R2 and be introduced to all the new features related to Server 2008 R2. Course topics include Remote Desktop, DirectAccess, Socket Pooling and more. Socket Pooling falls under the discussion on NPS and DNS updates, other topics covered are VPN Reconnect, multi-system health validator, NPS policy templates, and NPS improvements. There is also a section on Certificate Services, where you will find information on cross-forest trusts, LDAP referrals, copying ADCS objects, and high volume CAs.

CSV and Remote Desktop Server .......... 695_001
DirectAccess .................. 695_002
Certificate Services .................. 695_003
NPS and DNS Updates .................. 695_004

Server 2008 Server Administrator (70-646)

Course Number: 59
Time: 675 Minutes
Number of Quizzes: 10 Quizzes
Number of Labs: 43 Labs

LearnSmart makes it easy to pass your Windows Server 2008 Server Administrator (70-646) exam. MCTS and MCITP certification expert, Aaron Spurlock, provides video instruction on all the Server 2008 features and built-in functions. Aaron, a veteran exam trainer, explains how to install, configure and setup vital services to your network. Additional study materials, including practice questions, are included to help you achieve MCITP Server Administrator Certification.

Course Overview .................. 59_001
Planning for Deployment .................. 59_002
Installation Process .................. 59_003
Windows Activation Methods .................. 59_004
Automated Deployment .................. 59_005
Multicast Installation .................. 59_006
DHCP Server Roles .................. 59_007
DNS Server Role .................. 59_008
Active Directory Role .................. 59_009
File Server Role .................. 59_010
File Management .................. 59_011
Windows Search Service .................. 59_012
Print Services Role .................. 59_013
DFS Namespaces .................. 59_014
Application Server and Services .................. 59_015
Server Virtualization .................. 59_016
Terminal Services .................. 59_017
Setting Up TS Options .................. 59_018
Terminal Service Application .................. 59_019
Deploying Applications .................. 59_020
Upgrading MCSA 2003 to Server 2008 (70-648) Series

Lightweight Directory Services, Rights Management Services, Read-Only Domain Controllers and Federation Services in MCSA 2003 to Server 2008 Upgrade

Course Number: 1435
Time: 105 Minutes
Number of Quizzes: 1 Quiz

Geared towards administrators with MCSA 2003 certification, this training will teach you the concepts and skills necessary to effectively manage Windows Server 2008. Focus on services associated with Active Directory - Lightweight Services, Rights Management Services, and Federation Services - to understand their function, purpose, components, and benefits. And then take your consideration of Active Directory Federation Services further as you study how to configure it using Resource Partner, Account Partner, and the Account Group. You will also spend time exploring read-only domain controllers as you increase your knowledge of the basics, the installation process, the steps to creating a RODC account, password replication policy, and RODC security. The topics covered in this training will help you smoothly transition from Server 2003 to Server 2008.

Lightweight Directory Services .................. 1435_001
Rights Management Services .................... 1435_002
Read-Only Domain Controllers .................. 1435_003
Federation Services .............................. 1435_004
Configuring AD FS ............................... 1435_005

AD Maintenance, Monitoring Performance, Diagnostic Tools, Backup and Recovery in MCSA 2003 to Server 2008 Upgrade

Course Number: 1436
Time: 105 Minutes
Number of Quizzes: 1 Quiz

Switching from Server 2003 to Server 2008 is simplified as you gain an understanding of various maintenance practices and tools. Learn how to perform maintenance in Active Directory using defragmentation, the Task Manager, the Resource Monitor, and the Reliability Monitor; and in the database by moving files. In addition to those tools, you will also learn about diagnostic tools like the Event Viewer and tools used for allocating resources. You will also cover how to back up Server 2008 and recover Active Directory. Recovering Active Directory describes different recovery types, AD snapshots, how to recreate users, recover Active Directory, and change DSRM password. Study these topics to help prepare you to administrate Server 2008 in your environment.

AD Maintenance .................................... 1436_001
Monitoring Performance ........................ 1436_002
Diagnostic Tools ................................. 1436_003
Backing Up ....................................... 1436_004
Active Directory Recovery ...................... 1436_005

Certificate Services, Administering CAs, Certificate Enrollment and Public Key Archival in MCSA 2003 to Server 2008 Upgrade

Course Number: 1437
Time: 105 Minutes

Gain an understanding of everything pertaining to certificates. You will get an overview of certificate services, where you’ll learn about public key certificates, stand-alone and root certificate authorities, the process of installing a certificate authority, the PKI hierarchy, and how to administer CAs. You will also go over the certificate enrollment and revocation processes. In the certificate enrollment section, you will take a look at user certificates, device enrollment, auto enroll, certification authority, and pending requests. For the revocation process, you will look at the certificate authority’s role, how to revoke certificates, OCSP certificates, and the Online Responder. Altogether, the concepts and skills contained in this training will help prepare you to move from Server 2003 to Server 2008.

Certificate Services ............................... 1437_001
Administering CAs ............................... 1437_002
Certificate Enrollment .......................... 1437_003
Deepen your understanding of IP addressing. You’ll begin by giving your attention to IPv4 addressing, which covers address classes, private addresses, subnet masking, default gateway, and configuring IPv4. Continuing the discussion on IP addressing, you will concentrate on IPv6. The next topic is DHCP, where you’ll learn about its functionality, scope, address exclusions and reservations, option classes, how to install and manage it, and work with scope options. You will also spend time learning about IP routing and IPSec. The IPSec section explains IPSec functionality, capabilities, implementation, security associations, and configuration options. Through this training, you are thoroughly preparing to successfully upgrade from Server 2003 to Server 2008.

IPv4 Addressing ........................................ 1438_001
Configuring IPv4 ....................................... 1438_002
IPv6 Addressing ....................................... 1438_003
Understanding DHCP ............................... 1438_004
Implementing DHCP ................................. 1438_005
IP Routing ............................................. 1438_006
IPSec .................................................. 1438_007
Configuring IPSec .................................... 1438_008


Course Number: 1439
Time: 150 Minutes
Number of Quizzes: 1 Quiz

Don’t let NAP and NPS confuse you while you’re sitting for the 70-648 certification exam. Learn all the concepts, skills, and processes associated with these core services. For the NAP section, you will learn about remote access methods, installing RRAS, implementing VPNs, NAP requirements, implementation methods, the NAP diagram, adding NAP roles, configuring DHCP, the purpose of the Health Policy server, configuring validators, and specifying NAP enforcement. The remainder of your training will focus on network authentication, wireless access, and Windows firewall. The Windows firewall section will demonstrate connectivity in firewalls, firewall protection, and how to create firewall rules. Explore the ins and outs of Server 2008 to properly transition from Server 2003 to Server 2008.

Remote Network Access ............................. 1439_001
Network Access Protection ....................... 1439_002
Configuring NAP .................................... 1439_003
Network Authentication .......................... 1439_004
Configuring Wireless Access ..................... 1439_005
Windows Firewall ................................. 1439_006

Windows Update, Performance Monitoring, Network Monitoring and Troubleshooting in MCSA 2003 to Server 2008 Upgrade

Course Number: 1440
Time: 90 Minutes
Number of Quizzes: 1 Quiz

As a system administrator, you must have an in-depth knowledge of the latest technology concerning servers. Begin learning about Windows Update, performance and network monitoring, and how to troubleshoot on Server 2008 using Event Viewer and viewing Windows logs. The Windows Update section discusses Windows Server Update Services, the WSUS Configuration Wizard, classifications, and the process of managing Update Services. And then in the network monitoring section, you will go over how to install the Network Monitor, monitor network traffic, filter traffic data, run and manage MBSA, create security templates, and analyze security configurations. Take this understanding of Server 2008, and apply it in your environment to upgrade from Server 2003 to Server 2008.

Windows Update ................................. 1440_001
Performance Monitoring ....................... 1440_002
Network Monitoring ............................. 1440_003
Troubleshooting ................................. 1440_004

Upgrading MCSA 2003 to Server 2008 (70-648)

Course Number: 90
Time: 705 Minutes
Number of Quizzes: 8 Quizzes

Learn all of the facts you need to pass your Upgrading from Windows Server 2003 MCSA to Windows Server 2008 (70-648) exam with this LearnSmart training product. Microsoft certification experts Aaron Spurlock and Tom
Carpenter combine their technical knowledge with real-world experience to help you learn and understand Active Directory, IP Addressing, working with remote access and every other topic you will need to understand in order to earn your MCTS and MCITP certifications.

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Topics</th>
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<tbody>
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<td>1441_001</td>
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<tr>
<td>1441_002</td>
<td>Rights Management Services</td>
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<td>1441_003</td>
<td>Read-Only Domain Controllers</td>
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<tr>
<td>1441_004</td>
<td>Federation Services</td>
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<td>1441_006</td>
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<td>Configuring IPv4</td>
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<td>1441_018</td>
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<td>1441_019</td>
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<td>1441_020</td>
<td>Implementing DHCP</td>
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<td>1441_021</td>
<td>IP Routing</td>
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<td>1441_022</td>
<td>IPSec</td>
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<td>1441_023</td>
<td>Configuring IPSec</td>
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<td>1441_024</td>
<td>Remote Network Access</td>
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<td>Configuring NAP</td>
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<td>1441_028</td>
<td>Wireless Access</td>
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<td>1441_029</td>
<td>Configuring Wireless Access</td>
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<td>1441_030</td>
<td>Windows Firewall</td>
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<td>1441_031</td>
<td>Windows Update</td>
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<td>1441_032</td>
<td>Performance Monitoring</td>
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<td>1441_033</td>
<td>Network Monitoring</td>
</tr>
<tr>
<td>1441_034</td>
<td>Troubleshooting</td>
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</table>

### Upgrading MCSE 2003 to Server 2008 (70-649) Series

#### Lightweight Directory Services, Rights Management Services, Read-Only Domain Controllers and Federation Services in MCSE 2003 to Server 2008 Upgrade

**Course Number:** 1441  
**Time:** 105 Minutes

Designed to help you transition from Windows Server 2003 to Windows Server 2008 for the 70-649 certification exam, you will learn about Active Directory server roles — Lightweight Directory Services, Rights Management Services, Read-Only Domain Controller, and Federation Services. You will spend an extended amount of time studying AD FS as you look at the Resource Partner, the Account Partner, Account Group, AD FS applications, how to map an incoming claim, and the steps to configuring the Resource Partner. Understanding each of these AD server roles is important to configuring Active Directory on Windows Server 2008. Use this training to prepare for the 70-649 certification exam.

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Topics</th>
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<td>Federation Services</td>
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<tr>
<td>1441_005</td>
<td>Configuring AD FS</td>
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</tbody>
</table>

### IPv4, IPv6, DHCP, IP Routing and IPSec in MCSE 2003 to Server 2008 Upgrade

**Course Number:** 1442  
**Time:** 180 Minutes

Part of understanding how Server 2003 differs from Server 2008 is understanding the role of IP addressing. IP address topics include IPv4 addressing, configuring IPv4, IPv6 addressing, understanding DHCP, implementing DHCP, IP routing, IPSec, and configuring IPSec. The configuring IPv4 section focuses on IPv4 configuration types, static IP config, advanced TCP/IP settings, IPv4 lab diagram, command line address config and DNS config, and the ping, traceroute, and pathping commands. In the IP routing section, you are provided with details on basic routing concepts, layer 2 and 3 cooperation, routing protocols, viewing the routing table, and managing routes. Through this training, you will gain an in-depth understanding
of IP addressing in preparation for the 70-649 certification exam.

IPv4 Addressing ............................. 1442_001
Configuring IPv4 ............................ 1442_002
IPv6 Addressing ............................. 1442_003
Understanding DHCP ....................... 1442_004
Implementing DHCP ....................... 1442_005
IP Routing ................................... 1442_006
IPSec ........................................ 1442_007
Configuring IPSec ......................... 1442_008

Windows Update, Performance Monitoring, Network Monitoring and Troubleshooting in MCSE 2003 to Server 2008 Upgrade
Course Number: 1443
Time: 90 Minutes

Explore how to monitor and manage network infrastructure as you learn about Windows Update, the Task Manager, Network Monitor, and the Event Viewer. Each of these components serves a different purpose in network infrastructure management. Using the Task Manager and the Reliability Monitor, you will be able to monitor network performance. The Network Monitor is incorporated in network monitoring and security configurations, while the Event Viewer is utilized to troubleshoot the network infrastructure. With these topics, you are preparing yourself for Microsoft’s Upgrading Your MCSE on Windows Server 2003 to Windows Server 2008 certification exam.

Windows Update ......................... 1443_001
Performance Monitoring ................. 1443_002
Network Monitoring ..................... 1443_003
Troubleshooting ......................... 1443_004

Deployment, Activation, Hyper-V, High Availability and Configuring Storage in MCSE 2003 to Server 2008 Upgrade
Course Number: 1444
Time: 180 Minutes

Learn to deploy servers by configuring Windows Server Hyper-V and virtual machines. As an administrator, you'll need to understand how to deploy images, configure deployment, activate Windows, and work with Hyper-V. The Hyper-V section explains virtualization, architectures, the benefits of virtualization, scenarios for virtualization, the virtual PC, how to understand Hyper-V, Hyper-V requirements and features, how to change a virtual machine’s settings, and the steps to copying a virtual machine. Alongside those virtualization concepts, a portion of this training is set aside to instruct you on high availability and the storage options in Server 2008. Altogether, this training will help prepare you for the 70-649 certification exam.

Deploying Images ......................... 1444_001
Configuring Deployment ................. 1444_002
Windows Activation ..................... 1444_003
Hyper-V ........................................ 1444_004
Working with Hyper-V .................. 1444_005
High Availability ......................... 1444_006
Configuring Availability ............... 1444_007
Configuring Storage .................... 1444_008

Terminal Services, Remote Desktop, Application Availability and TS Load Balancing in MCSE 2003 to Server 2008 Upgrade
Course Number: 1445
Time: 165 Minutes

Remote Desktop depends on Terminal Services. In this training, you are provided with an overview of Terminal Services, specifically its function, applications, features, client support, installation, connectivity, and role in enabling Remote Desktop. Branching from there, you will also study Terminal Services Licensing and configuration, monitorization, Terminal Services gateways, Terminal Services load balancing. Additionally, other topics discussed highlight Remote Desktop and application availability. Looking at Remote Desktop Services on Server 2008, two things you need to be able to do are configure Remote Desktop Gateway and configure Remote Desktop licensing. All the topics covered here will aid you in conducting those activities, and understanding the concepts behind them. Deepen your understanding of Server 2008 in preparation for the 70-649 certification exam.

Terminal Services ......................... 1445_001
Remote Desktop ......................... 1445_002
TS Licensing and Configuration .......... 1445_003
Monitoring TS ............................. 1445_004
Terminal Services Gateways ............ 1445_005
Application Availability ............... 1445_006
TS Load Balancing ...................... 1445_007
IIS 7.0, Web Applications,
File Transfer Protocol,
Simple Mail Transfer Protocol
and Web Server Security in MCSE
2003 to Server 2008 Upgrade
Course Number: 1446
Time: 150 Minutes

The topics covered will walk you through configuring a Web Services infrastructure, which involves configuring Web applications, managing Web sites, configuring a FTP server, configuring SMTP, managing IIS, and configuring Web server security. Each of these processes is addressed in different sections of this training. Configuring Web applications describes application pools, the role of .NET and ASPX, basic and general Web application settings, CPU and recycling settings, and application assignment. In the managing Web sites section, you will go over publishing Web sites, migrating IIS 6.0 sites, creating Web sites using APPCMD and the IIS Manager, creating virtual directory, configuring IP addresses, and editing site bindings. Upon completing this course, you will thoroughly understand how to configure a Web Services infrastructure, and be prepared for your 70-649 certification exam.

IIS 7.0........................................................................ 1446_001
Managing IIS 7.0.................................................. 1446_002
Web Applications...................................................... 1446_003
Managing Web Sites............................................. 1446_004
File Transfer Protocol............................................. 1446_005
Simple Mail Transfer Protocol.............................. 1446_006
Web Server Security............................................... 1446_007

■ Upgrading MCSE 2003
to Server 2008 (70-649)
Course Number: 89
Time: 825 Minutes

Learn all of the facts you need to pass your Upgrading from Windows Server 2003 MCSE to Windows Server 2008 (70-648) exam with this LearnSmart training product. Microsoft certification experts Aaron Spurlock and Tom Carpenter combine their technical knowledge with real-world experience to help you learn and understand Active Directory, IP Addressing, working with remote access and every other topic you will need to understand in order to earn your MCTS and MCITP certifications.

Lightweight Directory Services .................. 89_001
Rights Management Services...................... 89_002
Read-Only Domain Controllers .................. 89_003
Federation Services............................................. 89_004
Configuring AD FS ............................................. 89_005
IPv4 Addressing ............................................. 89_006
Configuring IPv4............................................... 89_007
IPv6 Addressing ............................................. 89_008
Understanding DHCP................................. 89_009
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IPSec......................................................... 89_012
Configuring IPSec........................................ 89_013
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Managing IIS 7.0........................................... 89_034
Web Applications......................................... 89_035
Managing Web Sites..................................... 89_036
File Transfer Protocol............................... 89_037
Simple Mail Transfer Protocol.................... 89_038
Web Server Security..................................... 89_039
Windows Server 2003

Server 2003 Active Directory Infrastructure (70-294) Series

AD Foundations, CIA Model, FSMO, Unique Names, Global Catalog, & Administrative Tools in Server 2003

Course Number: 1098
Time: 225 Minutes

Add the skills needed to plan, implement, and maintain a Windows Server 2003 Active Directory Infrastructure. Go step-by-step through the process of how to set up and maintain an Active Directory structure. Launch into an introduction to Active Directory foundations and the CIA model, the logical and physical components, and FSMO roles. After that explore the functions of unique and the global catalog in Active Directory, and the different administrative tools available through Server 2003. Upon completion of this course, students will have a clear understanding of what is needed to pass this portion of Microsoft’s MCSE 2003 certification exam.

AD Introduction ..................................................... 1098_001
AD Foundations & CIA Model ......................... 1098_002
Logical & Physical Components ...................... 1098_003
FSMO Roles of AD .................................................. 1098_004
Additional FSMO Roles of AD ....................... 1098_005
Uniqueness Rules & Global Catalog ................. 1098_006
Administrative Tools ............................................. 1098_007

DNS Concepts, DNS Zone Types, Installation Requirements, Installation Process, & AD Replica in Server 2003

Course Number: 1099
Time: 225 Minutes
Number of Quizzes: 2 Quizzes

Explore the relationship between DNS and Active Directory. Begin by looking at DNS concepts and zone types, and then switches to the Active Directory installation. Walk through the Active Directory installation requirements and process, how to add an Active Directory replica, the process of validating installation, and the post installation process, which involves zone integration and SMB signing. Gain the skills needed to plan and implement a Windows Server 2003 Active Directory Infrastructure. This course will aid in preparing students to pass Microsoft’s MCSE 2003 certification exam.

DNS Concepts ......................................................... 1099_001
Installation Requirements ........................................... 1099_002
Installation Process .................................................... 1099_004
AD Replica ................................................................. 1099_005
Validate Installation ...................................................... 1099_006
Post Installation Process ............................................. 1099_007

Forest and Domain Levels, Trusts, Decommissioning, OU, Users, & Groups in Server 2003

Course Number: 1100
Time: 195 Minutes
Number of Quizzes: 1 Quiz

This is a presentation of the skills needed to administrate within a Windows Server 2003 Active Directory Infrastructure. Begin by looking at the forest and domain levels; and gain an understanding of their function, enhancements in Server 2003, and how to raise them. There is a section dedicated to relationship types that explores the concepts behind trust relationships, the steps implemented to create a trust, and the process of decommissioning domain controllers. To wrap up, the training focuses on users and groups, and organizational units. Having trained in this course, students will be prepared to test in this portion of Microsoft’s MCSE 2003 certification exam.

Forest & Domain Levels ........................................... 1100_001
Trust & Decommissioning a DC ......................... 1100_002
Organizational Unit Structure ......................... 1100_003
OU Delegation ......................................................... 1100_004
Implementing Users & Groups ......................... 1100_005
User Acct & Group Types ........................................ 1100_006

UPN, Password Policies, Group Policy Objects in AD, GPO, Replication, Intrasite, & Intersite in Server 2003

Course Number: 1102
Time: 225 Minutes
Number of Quizzes: 2 Quizzes

Part of Microsoft’s MCSE 2003 certification testing inquires about the Active Directory infrastructure. Take time to concentrate on a couple of different areas that overlap within Active Directory specifically policies, software management and removal, and replication. In policies, you’ll gain an understanding of UPN suffixes, Group Policy object settings and planning, how to create and manage GPOs, GPO software deployment, and ways...
to secure authentication. You’ll also see an overview of the concepts behind intrasites and intersites in Active Directory. Discover the skills needed to maintain a Windows Server 2003 Active Directory Infrastructure.

UPN & Password Policies................................. 1102_001
Group Policy Objects in AD .................................. 1102_002
Create, Configure, & Manage GPOs...................... 1102_003
Tools & Delegating GPO .................................. 1102_004
Software Deployment with GPOs........................ 1102_005
Software Management & Removal with GPOs........... 1102_006
Replication in AD........................................ 1102_007
Intrasite & Intersite in AD................................ 1102_008

Security Settings, Highly Available DNS, FSMO Rules, & AD Implementation Plan in Server 2003
Course Number: 1103
Time: 150 Minutes

Study security, performance monitorization, and Active Directory implementation plan in Windows Server 2003. See how to adjust and enhance security settings through the GPO editor, and through the use of smart card authentication, user certificates, IP security policies, and local Group Policy. Performance monitorization is essential to server functionality, and is conducted with DNS, performance analysis, and the Replication Monitor. The topics encompassed in the Active Directory implementation plan are directory server models, project life cycle, Active Directory project documents, and resources. You’ll also find a section discussing FSMO rules where it includes information on the schema master, the domain naming master, PDC emulator, the Ntdsutil tool, and transferring roles. Absorb the knowledge needed to prepare to pass Microsoft’s MCSE 2003 certification exam.

Security Settings............................................ 1103_001
Highly Available DNS..................................... 1103_002
FSMO Rules.................................................. 1103_003
Backup, Analysis, & Monitor............................. 1103_004
Directory Serv Models & Bus Req....................... 1103_005

Server 2003
Active Directory Infrastructure (70-294)
Course Number: 5
Time: 630 Minutes

LearnSmart will demonstrate the skills needed to plan, implement, and maintain a Windows Server 2003 Active Directory Infrastructure with the help of expert instructor Dale Brice-Nash. Dale goes through the step-by-step process of how to set up and maintain an Active Directory structure as well as how to plan and implement user, computer, and group security. Supplemental learning materials are included in order that students have a clear understanding of what is needed to pass this portion of Microsoft’s MCSE 2003 certification exam.

AD Introduction........................................... 5_001
AD Foundations and CIA Model.......................... 5_002
Logical and Physical Comps.................................. 5_003
FSMO Roles of AD.......................................... 5_004
Additional FSMO Roles of AD............................. 5_005
Unique Names/Global Catalog.............................. 5_006
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Tools and Delegating GPOs.................................. 5_024
GPO Software Deployment.................................... 5_025
Software Mgmt. and Removal............................... 5_026
Replication in AD............................................ 5_027
Intrasite and Intersite in AD............................... 5_028
Security Settings............................................ 5_029
Highly Available DNS..................................... 5_030
FSMO Rules.................................................. 5_031
Backup, Analysis, and Monitor............................ 5_032
AD Implementation Plan.................................... 5_033
Server 2003
Designing Network Infrastructure (70-297) Series
AD, Domain Implication, Forest Design, DNS, Trusts, Migration, Schemas and Site Infrastructure in Server 2003

Course Number: 1368
Time: 270 Minutes
Number of Quizzes: 3 Quizzes

Delve into details, devices, and definitions intertwined with Windows Server 2003 network infrastructure and Active Directory. You will learn the prerequisite knowledge for administering a network operating system. You’ll consider design factors such as the design team, documentation, logical forest and domain design, as well as Active Directory design elements specifically the design guidelines, and design tasks and components. Spend time studying domain implication, DNS and trust relations, migration issues, schema management, and site infrastructure. It’s within the site infrastructure section that you will find demonstrations on the site design process, examining network information, and data gathering tools. All in all, these topics will aid you in preparing for Microsoft certification in Windows Server 2003, while deepening your understanding of administering Server 2003.

Site Design Elements ............................... 1368_001
Domain Implication .............................. 1368_002
Logical Forest Design ............................ 1368_003
Domain Design ..................................... 1368_004
DNS and Trust Relations ......................... 1368_005
Migration Issues ................................... 1368_006
Schema Management ............................. 1368_007
Site Infrastructure .............................. 1368_008

Site Design, Domain Controllers, GCs and FSMOs, Computer and User Accounts in Server 2003

Course Number: 1369
Time: 180 Minutes
Number of Quizzes: 2 Quizzes

Immerse yourself in Windows Server 2003 and its components. In this training, you will look at site design elements, domain controllers, FSMOs and Global Catalog Servers, and administration of Server 2003. For the discussion on domain controllers, you will go through considerations on placing domain controllers, and hardware requirements. In the administration section, you will study the administrative structure focusing on administrative issues and available resources to address those issues; the administration model, which provides you with descriptions of different IT models, administration security, inheritance, and Group Policy; and then, computer and user accounts. Prepare for the Windows Server 2003 Active Directory and Network Infrastructure (formerly 70-297) certification exam at your pace.

Site Design ........................................... 1369_001
Placing Domain Controllers ..................... 1369_002
GCs and FSMOs .................................... 1369_003
Administrative Structure ......................... 1369_004
Administration Model ............................ 1369_005
Computer/ User Accounts ....................... 1369_006

Group Policy, GPO Management, Name Resolution, DNS and WINS Replication in Server 2003

Course Number: 1370
Time: 240 Minutes

With this training, you’ll take a closer look at how to administer Windows Server 2003. A good chunk of this course is dedicated to Group Policy, its structure and the structure of its organizational units, and how to manage Group Policy objects. The DNS section starts with an introduction to name resolution, and covers DNS interoperability. There is also a section that describes client resolution for DNS server issues factoring in DNS client guidelines and naming. In the WINS replication section, you will learn about replication issues, coming up with a replication strategy, and replication guidelines. Through these topics, you will have a thorough understanding of administering Windows Server 2003 using Group Policy and DNS, and how to replicate the system.

Group Policy ........................................... 1370_001
GP Structure .......................................... 1370_002
OU Structure ......................................... 1370_003
GPO Management ................................. 1370_004
Name Resolution .................................... 1370_005
DNS Interoperability ............................ 1370_006
WINS Replication ................................. 1370_007
Client Resolution ............................... 1370_008

Course Number: 1371
Time: 210 Minutes

Concentrate on the network infrastructure portion of the Windows Server 2003 Active Directory and Network Infrastructure certification exam. You will go over the details of the network infrastructure, IP addressing, DHCP design, change management, and networking. In the network infrastructure section, you will learn about the network life cycle, design tasks, components of design, Active Directory support, and infrastructure guidelines. The networking concepts covered include network connectivity, connection types, and connectivity infrastructure. The network connectivity section covers the basic concepts focusing on design considerations, connectivity and security requirements, network controls, and connectivity guidelines. As you study these topics, you’ll be gaining an in-depth understanding of Server 2003, as well as preparing for the certification exam.

<table>
<thead>
<tr>
<th>Network Infrastructure</th>
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<td>IP Addressing</td>
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<td>DHCP Design</td>
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<td>Change Management</td>
<td>1371_004</td>
</tr>
<tr>
<td>Network Connectivity</td>
<td>1371_005</td>
</tr>
<tr>
<td>Connection Types</td>
<td>1371_006</td>
</tr>
<tr>
<td>Connectivity Infrastructure</td>
<td>1371_007</td>
</tr>
</tbody>
</table>


Course Number: 1372
Time: 150 Minutes

Designing a Windows Server 2003 network infrastructure also entails Internet and wireless access design. In Internet infrastructure, you need to have a grasp on Internet connectivity, firewalls and firewall design, replication challenges, extranet design and design options, and connectivity rules. For the discussion on wireless access design, you will delve into wireless infrastructure, its standards, security, threats, hardware, and infrastructure guidelines. You will also spend time looking at network access design and remote access security and infrastructure. In the remote access sections, you will focus on authentication methods, monitoring and auditing, design guidelines, remote access design, RAS server and VPN server placement, and RAS guidelines. Altogether, this training will thoroughly prepare you for Microsoft certification in Windows Server 2003.

<table>
<thead>
<tr>
<th>Internet Infrastructure</th>
<th>1372_001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network Access Design</td>
<td>1372_002</td>
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<td>Remote Access Security</td>
<td>1372_003</td>
</tr>
<tr>
<td>Remote Access Infrastructure</td>
<td>1372_004</td>
</tr>
<tr>
<td>Wireless Access Design</td>
<td>1372_005</td>
</tr>
</tbody>
</table>

Server 2003 Designing Network Security (70-298) Series


Course Number: 1007
Time: 180 Minutes
Number of Quizzes: 2 Quizzes

This training outlines the knowledge, policies, techniques, considerations, and framework of securing a network. In discussing security considerations, you will learn about the different business requirements and technical constraints associated with Server 2003. In addition to understanding these different security foundations, you will also explore risk management by describing business continuity planning, risk ratings, and management options. The goal of this course is to prepare students to prepare them to pass Microsoft’s Server 2003 Security Design (70-298) certification exam by strengthening their knowledge.

<table>
<thead>
<tr>
<th>Security Foundation</th>
<th>1007_001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Security Policies</td>
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<tr>
<td>Data Security</td>
<td>1007_003</td>
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<tr>
<td>Business Requirements</td>
<td>1007_004</td>
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<tr>
<td>Technical Constraints</td>
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<tr>
<td>Design Principles</td>
<td>1007_006</td>
</tr>
<tr>
<td>Security Framework</td>
<td>1007_007</td>
</tr>
<tr>
<td>Risk Management</td>
<td>1007_008</td>
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</tbody>
</table>
Learn how to create conceptual, logical, and physical designs for network infrastructure security. At each level, there’s a different level of security that can be configured or that’s set by default. There is specific concentration given to secure maintenance using the MMC, and the role of Software Update Services and EMS in secure maintenance. You will also be instructed in how to configure file and folder access and security, authentication, backup and recovery, Remote Access, and VPN security. Under the Remote Access section, you will gain perspective as you identify security issues, see how to access resources, and use NAQC, RADIUS, and IAS.

Network Management Procedures .......................... 1008_001
Secure Maintenance ........................................... 1008_002
Software Update Services (SUS) .......................... 1008_003
Authentication ................................................. 1008_004
File and Folder Access ....................................... 1008_005
File and Folder Security ...................................... 1008_006
Remote Access .................................................. 1008_007
VPN Security .................................................... 1008_008

Topics covered in this course are meant to help prepare students to pass Microsoft’s Server 2003 Security Design (70-298) certification exam. Study the structure of a network infrastructure, communication within it, and security across the network; how to secure DNS against attacks; and the implementation of PKI and IIS for security purposes. In the discussion on PKI, the training describes the basics of PKI and how to plan it. You will also explore perimeter security by discussing such topics as segmented networks, extranets, and cross-certification.

Network Infrastructure ...................................... 1009_001
Securing DNS .................................................... 1009_002
Perimeter Security ............................................. 1009_003
PKI Overview ................................................... 1009_004
PKI Planning .................................................... 1009_005
IIS 6.0 ............................................................ 1009_006

Through this video training, you will understand how to implement security for a Windows Server 2003 network. Delve into how to implement security within Active Directory, how to implement security at the client level, and how to implement wireless security. While exploring these different types of security, there is also a section that identifies server baselines and their relationship to policies and templates. Topics included in this course are meant to help prepare students to pass Microsoft’s Server 2003 Security Design (70-298) certification exam.

Server Baselines .............................................. 1010_001
Active Directory Security ................................. 1010_002
Client Security ................................................. 1010_003
Wireless Essentials ......................................... 1010_004
Wireless Security ............................................. 1010_005

Server 2003
Network Environment (70-290) Series
Installation, Upgrading Windows 2000, Hardware Support, & Troubleshooting Hardware in Server 2003

LearnSmart will help prepare students to meet Microsoft’s MCSE 2003 certification exam objectives. Focus on the installation of Microsoft Windows Server 2003 by going through an introduction to Windows Server 2003. Then transition into instructions on installing the server as a clean installation or as an upgrade installation. You wrap up your studies by taking a look at hardware support and how to troubleshoot it. Deepen your understanding of managing and maintaining a Windows Server 2003 environment to help increase your career opportunities and earning potential.

Installation ..................................................... 1093_001
Upgrading Windows 2000 ................................ 1093_002
Screening and Reporting ................................. 1093_003
Hardware Support .......................................... 1093_004
Remote Management .................................. 1093_005
Troubleshoot Hardware .............................. 1093_006

**Basic Dynamic Volumes, Fault Tolerant Volumes, Managing Volumes, & File Systems in Server 2003**

Course Number: 1094
Time: 135 Minutes

This video training demonstrates how to configure storage on Microsoft Windows Server 2003. Go through an overview of volumes, file systems, and the physical components involved in Server 2003. The volume section of the course focuses on basic dynamic and fault tolerant volumes, and how to manage them. In file systems, students will learn about FAT, NTFS, and file permissions. Deepen your understanding of managing and maintaining a Windows Server 2003 environment. With that understanding, students will gain necessary knowledge required to prepare for the Microsoft’s MCSE 2003 certification exam.

Server 2003 ............................................ 1094_001
Basic Dynamic Volumes ......................... 1094_002
Fault Tolerant Volumes ......................... 1094_003
Managing Volumes .............................. 1094_004
File Systems ........................................... 1094_005

**Computer Accounts, User Accounts, Account Properties, User Profiles, & Groups in Server 2003**

Course Number: 1095
Time: 180 Minutes
Number of Quizzes: 2 Quizzes

Start by focusing on the different accounts and groups used in administration on Server 2003. In the account section, students will learn about computer and user accounts, user account properties, and user profiles. While it emphasizes computer and user accounts, this course also looks at groups and how to manage them. Upon completion of this course, students will learn skills and knowledge necessary to prepare them to pass the Microsoft’s MCSE 2003 certification exam objectives. Deepen your understanding of managing and maintaining a Windows Server 2003 environment.

Computer Accounts ...................... 1095_001
User Accounts .............................. 1095_002
Advanced User Accounts ................... 1095_003
User Account Properties ............... 1095_004
User Profiles .................................. 1095_005

Groups ............................................. 1095_006
Managing Groups ............................ 1095_007

**NTFS, Printers, Windows Licensing, & Software Update Services in Server 2003**

Course Number: 1096
Time: 180 Minutes
Number of Quizzes: 1 Quiz

Deepen your understanding of managing and maintaining a Windows Server 2003 environment. This LearnSmart course explores permissions, printers, Windows licensing, and SUS in Server 2003. In the discussion on permissions, students will learn about NTFS and Share permissions, inheritance, and NTFS features like quotas, ownership, and compression. The Windows licensing section covers the topics of site licensing, using the licensing tool, verifying licensing, and presenting the different licensing modes. Gain an understanding of how to master techniques used in the monitoring and optimizing of physical and logical devices.

NTFS Permissions ........................... 1096_001
Share Permissions ......................... 1096_002
NTFS Features ............................... 1096_003
Printers ........................................ 1096_004
Printers (cont.) ............................. 1096_005
Windows Licensing ....................... 1096_006
Software Update Services .......... 1096_007

**Remote Administration, Monitoring Servers, Shadow Copies, Backup, & Disaster Recover in Server 2003**

Course Number: 1097
Time: 180 Minutes
Number of Quizzes: 1 Quiz

This video training will help prepare students for taking Microsoft’s MCSE 2003 certification exam. Train in remote administration Web servers, shadow copies, backups and disaster recovery, using tools such as Remote Desktop on Windows Server 2003. In discussing Web server, find details on the different Web services that can be implemented through it, the role of IIS, and how to manage the Web server. The purpose of this course is to instruct students in how to monitor and maintain the server. Gain an understanding of how to master techniques used in the monitorization and optimization of physical and logical devices through this course on Windows Server 2003.

Remote Administration ...................... 1097_001
Remote Desktop ........................................... 1097_002
Web Server .............................................. 1097_003
Monitoring Servers .............................. 1097_004
Shadow Copies ...................................... 1097_005
Backup .................................................. 1097_006
Disaster Recovery .................................. 1097_007
File Server Roles and Quotas .............. 1097_009
Screening and Reporting ................. 1097_010
Remote Management ...................... 1097_011
Replicating Data .................................. 1097_012
Printer Management ...................... 1097_013
UNIX Integration ......................... 1097_014
Web Update Technology/UNIX ........... 1097_015

Server 2003
Network Infrastructure (70-291) Series

Network Infrastructure, TCP/IP, MAC, and IP Addresses, & DHCP in Server 2003
Course Number: 1000
Time: 240 Minutes
Number of Quizzes: 1 Quiz

Looking to acquire the skills needed to implement, manage, and maintain a Windows Server 2003 network? Then learn about how to implement server IP addressing, dynamic addressing, network security, routing, and Remote Access. All these topics are covered during the video lecture portion of this training, along with DHCP. In the DHCP section, you’ll look at how to implement and manage it, authorize it, configure the client, create reservations, back it up, and install and configure the relay agent. Through this course, students gain an understanding in concepts that will help them to prepare and pass the MCP 70-291 certification exam.

Network Infrastructure ...................... 1000_001
Understanding TCP/IP ....................... 1000_002
MAC and IP Addresses .................... 1000_003
Addressing Your Network ................. 1000_004
Dynamic Addressing ...................... 1000_005
Implementing DHCP ...................... 1000_006
Managing DHCP .......................... 1000_007

IP Address Troubleshooting, DNS Servers, & Configuring Zones in Server 2003
Course Number: 1001
Time: 180 Minutes
Number of Quizzes: 2 Quizzes

You will acquire the skills needed to implement, manage, and maintain a Windows Server 2003 network. Focus on name resolution using DNS servers and the techniques associated with monitoring and maintaining DNS. In DNS monitoring and maintenance by learning about the different tools used and troubleshooting DNS issues. You will also explore how to configure zones and their role in helping manage the server network, and how to troubleshoot IP addresses in DHCP authorization and the client IP. This course will help students prepare for the MCP 70-291 certification exam.

IP Address Troubleshooting .................. 1001_001
Name Resolution .............................. 1001_002
Install DNS Servers ......................... 1001_003
Configuring Zones ......................... 1001_004
Monitor and Maintain DNS ................. 1001_005

VPN, Remote Access Policies, IAS, & Troubleshooting
Remote Access in Server 2003
Course Number: 1002
Time: 180 Minutes
Number of Quizzes: 1 Quiz

This is a preparatory course for the MCP 70-291 exam that provides a holistic look at Remote Access from conceptualization to troubleshooting. Study in Remote Access by concentrating on its purpose, its features, and the steps taken to implement it. Some of the topics encompassed are Remote Access policies, the role of the IAS server, the RADIUS server, and how to configure RRAS. Remote Access allows for virtualization. The virtualization section concentrates on virtual private networks (VPNs) looking at how to configure security, add a new connection using the Wizard, and how to access the network.

Remote Access ......................... 1002_001
Virtual Private Networks .................. 1002_002
Remote Access Policies ................. 1002_003
IAS .................................................. 1002_004
Troubleshoot Remote Access ............ 1002_005
IP Routing Protocols, Demand-Dial Routing, VPN, NAT, & Troubleshooting Routing in Server 2003

Course Number: 1003  
Time: 240 Minutes  
Number of Quizzes: 2 Quizzes

Focus on both physical and virtual connections within Server 2003. By the end, students will have a thorough understanding of concepts associated with routing on a server, implementing routing, and troubleshooting connections. When exploring routing, there is information included on NAT, and the configuration and function of RRAS NAT. Through this training, you’re further engraving concepts needed to prepare for the MCP 70-291 certification exam.

Routing Introduction .............................. 1003_001  
Implementing Routing ......................... 1003_002  
Demand-Dial Routing ......................... 1003_003  
Virtual Private Networks ....................... 1003_004  
Network Address Translation ................. 1003_005  
RRAS NAT ........................................... 1003_006  
Troubleshooting Routing ...................... 1003_007

Security Templates, IPsec, Monitoring, & Troubleshooting Services in Server 2003

Course Number: 1004  
Time: 225 Minutes

Thoroughly understanding Windows Server 2003 is essential to passing the MCP 70-291 certification exam. Prepare yourself for that examination by covering the concepts of security and monitoring in Server 2003. Security is explained by introducing students to security templates and IPsec. Students will learn about the Task Manager, Network Diagnostics, Network Monitor, ipconfig, and netsh as monitoring tools. There’s also a section dedicated to demonstrating how to troubleshoot IPsec and the Services console.

Security Templates .............................. 1004_001  
IPsec ................................................. 1004_002  
Configure IPsec .................................... 1004_003  
Troubleshoot IPsec ............................... 1004_004  
Monitoring ......................................... 1004_005  
Troubleshooting Services ...................... 1004_006

Server 2003 Network Security Admin (70-299) Series


Course Number: 1011  
Time: 180 Minutes  
Number of Quizzes: 1 Quiz

Information security skills are in hot demand. You will be provided with details concerning the security structure through an overview of its components, the function of authentication and the protocols associated with it, the process of configuring Web authentication, and how to implement security and trust relationships. Along with these security topics, you will learn the roles of groups in security. There is also a section dedicated to teaching concepts surrounding groups as in group hierarchies, types of groups, group permissions, and restricted groups.

Security Structures .................................. 1011_001  
Authentication ..................................... 1011_002  
Implementing Authentication ................. 1011_003  
Web Authentication ............................. 1011_004  
Trust Relationship ................................. 1011_005  
Group Hierarchies ................................. 1011_006  
Group Types ........................................ 1011_007

Authorization, Managing ACLs, Permissions, Templates, & Policies in Server 2003

Course Number: 1012  
Time: 180 Minutes  
Number of Quizzes: 2 Quizzes

Server 2003 offers network administrators the ability to use policies, permissions, and authorization rules to implement security throughout the network. Along with discussions on those capabilities, study the role of templates. The majority of the content concentrates on this topic by exploring template types specifically security and role-based templates, how to deploy templates, and the steps taken to troubleshoot them using various tools and techniques. Going through this course will solidify students understand of authorization, permissions, template, and policies in Server 2003.

Authorization ...................................... 1012_001  
Managing ACLs .................................... 1012_002  
Permissions ........................................ 1012_003  
Security Templates .............................. 1012_004

Course Number: 1013
Time: 165 Minutes
Number of Quizzes: 1 Quiz

Focus on security by looking at client roles and Group Policy, how to restrict and distribute software to users, and the ways to secure different server types. The discussion on securing different server types starts with a general overview of server security. First you will study integrating DNS, disabling root hints, and authorizing DHCP, and then concentrate more particularly on security in DHCP servers, Web servers, and Exchange servers. Through this training, you will develop the understanding and skills needed to evaluate and analyze security settings using the MBSA, MBSACLI, and Security Configuration and Analysis tools.

Client Security .................................... 1013_001
Restricting Software .............................. 1013_002
Distributing Software .............................. 1013_003
Securing Servers .................................. 1013_004
Securing Web Servers ............................. 1013_005
Securing Exchange Servers ....................... 1013_006
Security Setting Analysis ......................... 1013_007

PKI, Certificates, Backup, Restoration, Wireless Security, & Managing Updates and Patches in Server 2003

Course Number: 1014
Time: 165 Minutes
Number of Quizzes: 1 Quiz

When it comes to security, certificates are helpful, but it is also important to know how to recover and update Windows Server 2003 as methods that secure the server. You will be provided with knowledge, skills, and tips in those three areas: certificates, recovery, and updates. Begin by discussing certificates with PKI; and then exploring the role of Certificate Services and templates, and how to install and manage them. There is also a section showcasing how to back up on certificate authorities (CAs), how to utilize service packs for updates, and wireless security.

PKI .................................................. 1014_001
Installing Certificate Services ...................... 1014_002
Certification Templates ............................ 1014_003
Managing Certificates ............................. 1014_004
Backup & Restoration ............................ 1014_005
Wireless Security .................................. 1014_006
Managing Updates & Patches ...................... 1014_007

Server 2003 Planning Network Infrastructure (70-293) Series
TCP/IP, Network Availability, Network Performance, Planning for Growth and DHCP in Server 2003

Course Number: 1373
Time: 225 Minutes
Number of Quizzes: 1 Quiz

Start out with an overview of connectivity, the role of RRAS, security, and Server 2003 components. From there, you will focus on TCP/IP networking, network availability, network performance, and TCP/IP addressing. In the TCP/IP addressing, you will learn about DHCP performance, lease duration, DHCP security, DHCP issues...
and steps to troubleshooting them, and traffic monitoring. Moreover, these topics will serve to increase your foundational understanding of the concepts associated with networking. You will also spend some time studying planning for growth and DHCP planning, where you’ll go through config methodologies, DHCP features, integration benefits, LAN, routed networks, and non-Microsoft clients. Together, these topics will aid in preparing you for the MCSE 2003 certification exam.

TCP/IP Networking.............................. 1373_001
Network Availability ............................ 1373_002
Network Performance .............................. 1373_003
Planning for Growth............................. 1373_004
DHCP Planning.................................. 1373_005
Troubleshooting TCP/IP Addressing.......... 1373_006

**Internet Connectivity, NAT, Security, Clustering, Planning RRAS and Routing Types in Server 2003**

Course Number: 1374  
Time: 225 Minutes  
Number of Quizzes: 2 Quizzes

Focus on Microsoft Server 2003 as you study Internet connectivity, NAT, security, ISA server enhancement, and clustering technologies. The security section is combined with acceleration where you’ll look at planning decisions, filtering and security features, design options and requirements, the role of Active Directory, and perimeter design. In addition to the security and acceleration discussion is the clustering technologies section. Some of the clustering types covered are NLBS, CLB, X node clustering, and failover/failback. You are also provided with discussions on planning RRAS and routing types. Upon completion of this training, you will be further prepared for the MCSE 2003 certification exam.

Internet Connectivity.......................... 1374_001
Network Address Translation.................... 1374_002
Internet Security & Acceleration.............. 1374_003
Enhancing ISA Server.......................... 1374_004
Clustering Technologies........................ 1374_005
Planning RRAS.................................. 1374_006
Routing Types.................................. 1374_007

**RRAS Advanced Features, IP Troubleshooting, Secure Remote Access, RAS Authentication and IPsec in Server 2003**

Course Number: 1375  
Time: 225 Minutes  
Number of Quizzes: 2 Quizzes

The topics covered in this training center on RAS, IP and IPsec, and remote access. For RAS, you will discover RRAS advanced features and RAS authentication, which explains how to plan for RAS authentication, the different methods available, how to use certificate based, the details of RAS policy, and the relationship between RAS and Digest, SSL, RADIUS methods. As for the remote access section, you will concentrate on securing remote access. In the IPsec section, you will find details on planning IPsec policy, planning IPsec deployment, and how to troubleshoot IPsec. Collectively, these topics with others formulate the objectives of the MCSE 2003 certification exam. Walk through this training to thoroughly prepare for that certification exam.

RRAS Advanced Features...................... 1375_001
IP Troubleshooting.............................. 1375_002
Secure Remote Access.......................... 1375_003
RAS Authentication............................ 1375_004
Planning IPsec Policy........................... 1375_005
Planning IPsec Deployment..................... 1375_006
IPsec Troubleshooting.......................... 1375_007

**DNS, WINS, Security Design and Security Baseline in Server 2003**

Course Number: 1376  
Time: 165 Minutes  
Number of Quizzes: 1 Quiz

DNS, WINS, and security all play a role in administering the Windows Server 2003. In the DNS section, you will go over the design process for DNS, DNS features, Active Directory integrated zone, choosing a zone type, connecting to the Internet, options for integrating DNS, secure zone replication, DNS availability and performance, and DNS troubleshooting options. For WINS, you will study planning WINS. Then shift your attention to security. The security topics covered include the security design process and the security baseline, which describes the baseline strategy, baseline server roles, physical security, passwords, security templates, and the process of deploying and updating in Server 2003. Learn all there is to know about these topics, in order to prepare for the MCSE 2003 certification exam.

DNS............................................... 1376_001
Part of planning and maintaining a Server 2003 network infrastructure involves perimeter and public server security, and planning for administration. The discussions on perimeter and public server security offers you descriptions of router security, DMZ subnets, midground screens, port scanning, and the different public server roles and their vulnerabilities. Some of the security options highlighted include firewalls, authentication, encryption, and using certificates. In the planning for administration section, you are provided with details on planning remote administration, terminal services, monitoring performance through monitoring services, media handling, and how to ensure data and system protection. Gain the background knowledge and skills needed to properly prepare for Microsoft’s MCSE 2003 certification exam.

- Perimeter Security, Securing Public Servers, CAs and Planning for Administration in Server 2003
  
  Part of planning and maintaining a Server 2003 network infrastructure involves perimeter and public server security, and planning for administration. The discussions on perimeter and public server security offers you descriptions of router security, DMZ subnets, midground screens, port scanning, and the different public server roles and their vulnerabilities. Some of the security options highlighted include firewalls, authentication, encryption, and using certificates. In the planning for administration section, you are provided with details on planning remote administration, terminal services, monitoring performance through monitoring services, media handling, and how to ensure data and system protection. Gain the background knowledge and skills needed to properly prepare for Microsoft’s MCSE 2003 certification exam.

- Exchange Server 2010
  
  Exchange Server 2010 Planning for Administration
  
  Additional study materials geared toward increasing your career opportunities and earning potential in the field of systems networking.

- Internet Connectivity
  
  Additional study materials geared toward increasing your career opportunities and earning potential in the field of systems networking.

- Network Address Translation
  
  Additional study materials geared toward increasing your career opportunities and earning potential in the field of systems networking.

- Network Performance
  
  Additional study materials geared toward increasing your career opportunities and earning potential in the field of systems networking.

- Network Availability
  
  Additional study materials geared toward increasing your career opportunities and earning potential in the field of systems networking.

- TCP/IP Networking
  
  Additional study materials geared toward increasing your career opportunities and earning potential in the field of systems networking.

- Network Design
  
  Additional study materials geared toward increasing your career opportunities and earning potential in the field of systems networking.

- Network Planning
  
  Additional study materials geared toward increasing your career opportunities and earning potential in the field of systems networking.

- Network Performance
  
  Additional study materials geared toward increasing your career opportunities and earning potential in the field of systems networking.

- Network Security
  
  Additional study materials geared toward increasing your career opportunities and earning potential in the field of systems networking.

- Planning IPSec Policy
  
  Additional study materials geared toward increasing your career opportunities and earning potential in the field of systems networking.

- Planning RRAS
  
  Additional study materials geared toward increasing your career opportunities and earning potential in the field of systems networking.

- Planning IPSec Deployment
  
  Additional study materials geared toward increasing your career opportunities and earning potential in the field of systems networking.

- Planning IPSec Troubleshooting
  
  Additional study materials geared toward increasing your career opportunities and earning potential in the field of systems networking.

- Planning IPSec Troubleshooting
  
  Additional study materials geared toward increasing your career opportunities and earning potential in the field of systems networking.

- Planning RRAS
  
  Additional study materials geared toward increasing your career opportunities and earning potential in the field of systems networking.

- Planning IPSec Policy
  
  Additional study materials geared toward increasing your career opportunities and earning potential in the field of systems networking.

- Planning IPSec Policy
  
  Additional study materials geared toward increasing your career opportunities and earning potential in the field of systems networking.
Exchange Server 2010

Exchange Server 2010 Configuration (70-662) Series

Installation, Server Roles & Database Management in Exchange Server 2010

Course Number: 810
Time: 150 Minutes
Number of Quizzes: 2 Quizzes

Master Exchange Server 2010 Configuration by learning the must-know exam topics. Start by studying Exchange installation and configuration of server roles, and how to manage databases. Configuration of server roles focuses on role interaction, mailbox server, hub transport server, client access server, and edge transport server. In the discussion on databases, you will look at creating a mailbox database, how to mount it using PowerShell, configuring database properties, and understanding database log files.

Course Overview ........................................ 810_001
Preparing the Infrastructure ......................... 810_002
Installing Exchange .................................. 810_003
Exchange Server Roles ............................... 810_004
Creating Databases ................................. 810_005
Managing Databases ................................ 810_006

Mailbox Configuration and Settings in Exchange Server 2010

Course Number: 811
Time: 165 Minutes
Number of Quizzes: 2 Quizzes

Microsoft provides a certification through Exam 70-622, which is based on Microsoft Exchange Server 2010. Through Exchange Server 2010 you can turn features on and off for user mailboxes, and create, configure, set permissions. Find demonstrations on how to work with those features, as well as how to organize mailbox folders. One of the topics that you will find helpful for team scenarios where multiple people require access to resources is setting up a resource mailbox. With a resource mailbox, you can limit access based on permissions and requests. Access can be granted according to contacts, users, distribution groups, or distribution list. Learn about the impact of each of these in Exchange Server 2010.

Creating and Configuring Mailboxes .......... 811_001
Resource and Shared Mailboxes ............ 811_002

Client Access, OWA, POP3, IMAP & ActiveSync in Exchange Server 2010

Course Number: 812
Time: 180 Minutes
Number of Quizzes: 2 Quizzes

With an Exchange Server, clients access mailboxes through the client access server. Find explanations on how communication occurs and how to connect to the client access server across multiple platforms. You will be introduced to the client access process, explore the different configuration processes associated with the Outlook Web app, study POP, IMAP, and ActiveSync’s role in Exchange Server 2010. You will also walk through understanding encryption certificates, how to configure Outlook for accessibility anywhere, and creating new client access arrays.

Introduction to Client Access ...................... 812_001
Outlook Web App Part I ......................... 812_002
Outlook Web App Part II ....................... 812_003
POP3, IMAP, and ActiveSync ................ 812_004
Encryption Certificate Management .......... 812_005
Outlook Anywhere and RPC Client Access ... 812_006

Federated Sharing, Transport Servers, Connectors & TLS in Exchange Server 2010

Course Number: 813
Time: 135 Minutes
Number of Quizzes: 2 Quizzes

Review the purpose, function, and details of federated sharing, hub and edge transport servers, and transport layer security. In the federated sharing section, you will learn what federated sharing is, about federated sharing policies, and how to set it up. Time is also spent training you in message routing where you will look at connectors, connector properties, smart hosts, and accepted domains. Branching from that discussion is the topic “Securing Traffic with TLS,” concentrates on understanding TLS, sending and receiving MTLS connector, and editing TLS send and receive domain. The goal is to help prepare
you for Microsoft’s 70-662 exam and cement your understanding of Exchange Server 2010.

Federated Sharing.................................813_001
Hub Transport Server .........................813_002
Message Routing...............................813_003
Securing Traffic with TLS.....................813_004
Edge Transport Servers ......................813_005

Anti-Spam & Antivirus, DAG & Restoration in Exchange Server 2010
Course Number: 814
Time: 105 Minutes
Number of Quizzes: 1 Quiz

Administrators should be aware of the various maintenance features involved with Exchange Server 2010. Go through descriptions on which filter types can be used to protect an organization from spam and viruses, the function and benefits of database availability groups, and how to restore a server after a disaster. Starting the discussion on database availability groups, you will learn their definitions, how they work with hub server transport dumpster, and walk through a sample scenario. Having gone through those basics, you will also learn how to add servers to the DAG, configure DAG properties, and configure lag. Microsoft’s 70-662 exam covers a range of topics, and you can expect to see topics like antivirus, DAG, and restoration techniques. So be sure to solidify your understanding of those topics.

Anti-Spam and Antivirus.........................814_001
Database Availability Groups..................814_002
Other High Availability Considerations ......814_003
Backups and Restores .........................814_004

Monitoring & Managing Exchange Server 2010
Course Number: 815
Time: 150 Minutes
Number of Quizzes: 2 Quizzes

Preparing for Microsoft’s 70-662 exam requires that you know everything concerning Exchange Server 2010. Start your preparation by learning what things to monitor and how to manage Exchange Server 2010. You will cover logging and reporting, compliance and message integrity, managing records, and role-based Access Control. Logging and reporting discussions take you through how to enable protocol logging, set IMAP and SMTP protocol logging, and getting public folder and mailbox statistics. In the end, you will be able to identify the components of the Exchange server that should be monitored and how to monitor it.

Monitoring Exchange..........................815_001
Logging and Reporting .......................815_002
Compliance and Message Integrity ........815_003
Records Management .......................815_004
Role Based Access Control ...............815_005

Exchange Server 2010 Design (70-663) Series

Active Directory, DNS, Server Roles & Storage in Exchange Server 2010
Course Number: 816
Time: 135 Minutes
Number of Quizzes: 1 Quiz

If you are a senior administrator looking to increase your understanding of Exchange Server 2010 and pass Microsoft’s 70-663 exam, this course is for you. Prepare for the certification exam by learning to configure an Exchange server. You will look at the relationship between the Exchange server, Active Directory, DNS, and server roles, specifically hub transport server, unified messaging server, and edge transport server. There is also time spent concentrating on mailbox sizing, mailbox memory, and the mailbox server role.

Introduction........................................816_001
Exchange and Active Directory ..........816_002
Exchange and DNS .........................816_003
Exchange 2010 Server Roles ..........816_004
Mailbox Server Role .......................816_005
Mailbox Sizing and Memory ............816_006

Mailbox and Folder Design, CAS, & RPC in Exchange Server 2010
Course Number: 817
Time: 150 Minutes
Number of Quizzes: 2 Quizzes

Cover an array of exam-related topics from mailboxes to folder design to client security and more. To start, you will explore mailbox recipient design where you will focus on mailbox features and mailbox moves, steps to create a resource mailbox, and manage full access permissions. You will learn about designing client access servers and designing RPC client access as you study designing ActiveSync, client access services, configuring OWA external URL, and how to design, enable, and configure
authentication. Upon course completion, you’ll have all
the skills necessary to pass the 70-663 exam and gain a
competitive edge as an IT professional.

Mailbox Recipient Design ................. 817_001
Public Folder Design ....................... 817_002
Designing Client Access Servers .......... 817_003
Designing RPC Client Access ............. 817_004
Designing CAS Client Security .......... 817_005

Hub Transport, Edge
Servers, Federated Sharing,
Foreign Connectors & RBAC
in Exchange Server 2010
Course Number: 818
Time: 105 Minutes
Number of Quizzes: 2 Quizzes

This video training prepares IT professionals to design
an appropriate Exchange Server 2010 messaging
infrastructure based upon business messaging
requirements. Topics covered are designing hub transport,
the usefulness of federated sharing, edge servers, foreign
connectors, and RBAC. In the discussion on edge servers,
there’s also a discussion on message hygiene including
transport hygiene and MX records. RBAC limits who
has access to the system, which is implemented through
permissions, roles, and groups. Learn these topics and
more to prepare for Microsoft’s 70-663 exam.

Designing Hub Transport .................. 818_001
Edge Servers and Message Hygiene ..... 818_002
Federated Sharing ......................... 818_003
Connecting with Foreign Mail Systems .. 818_004
Transport Rules and Message Journaling .. 818_005
Role-Based Access Control ............... 818_006

Database, CAS & Hub/Edge/High
Availability, and Maintenance
Course Number: 819
Time: 150 Minutes
Number of Quizzes: 2 Quizzes

As a network administrator, Exchange Server 2010 is
a powerful system that you should understand. Find
instruction on how to implement high availability on
the database, CAS, Active Directory and other areas
of the server. In addition to high availability, you focus
on server maintenance looking at backups, records
management, upgrading, and troubleshooting. In the
discussion on upgrading, you go through the steps of
moving from previous versions to the most recent,
look at the prerequisites for adding a 2010 server, and
follow a demonstration on upgrading an Exchange 2007
environment. Learn these topics and more to prepare for
Microsoft’s 70-663 exam.

Database High Availability ............... 819_001
CAS High Availability .................... 819_002
Hub/Edge/AD High Availability ........... 819_003
Planning Backup and Recovery .......... 819_004
Messaging Records Management ........ 819_005
Upgrade Planning ....................... 819_006
Monitoring and Troubleshooting ...... 819_007

Exchange Server 2007

Exchange Server
2007 Configuration
(70-236) Series
Installation, Roles and Server
Editions in Exchange Server 2007
Course Number: 1233
Time: 270 Minutes

As an introduction to Microsoft’s 70-236 exam (retired),
find out the prerequisites for the exam, what’s new in
Exchange Server 2007 from Exchange Server 2003,
and the 64-bit changes. Deepen your understanding of
Exchange Server as you go through discussions on the
Exchange Server roles - mailbox server, hub transport
server, unified messaging, and edge transport server.
As well as find explanations of the different Exchange
Server editions, so that you can pick the one that matches
your environment. Once you’ve selected an edition, you
can then begin preparing for installation as you look at
the system requirements, hardware recommendations,
software prerequisites, and installation requirements for
Active Directory. The remainder of the course is dedicated
to installing Exchange and other essential services.
This training will teach you the skills, techniques, and
knowledge you need to prepare for Microsoft’s TS:
Configuring Exchange Server 2007 (70-236 retired) exam.

Introducing Exchange 2007 ................. 1233_001
Exchange Roles .......................... 1233_002
Exchange Server Editions ............... 1233_003
Installation Preparation ................. 1233_004
Active Directory Preparation .......... 1233_005
Exchange Installation ................... 1233_006
Advanced Installation .................... 1233_007
Administration, Management Console, Windows PowerShell and Email Domains in Exchange Server 2007
Course Number: 1234
Time: 225 Minutes

Do you need to accumulate knowledge of and skills for working with Exchange Server 2007? Then start out by learning more about how to manage it. Exchange administration involves the Management Console, Management Shell as in Windows PowerShell, AD permissions, and assigning administrator roles. In the Management Shell section, you will cover commands such as pipelining commands, the Get-Mailbox, and others to execute different tasks. You will also observe how to remove Exchange Server 2003 and work with email domains. Email domain topics are accepted domains, email address policies, how to add email addresses, and the steps to adding new email address policies. Thoroughly understanding these topics will successfully prepare you for Microsoft’s 70-236 TS: Configuring Exchange Server 2007 exam (retired).

Exchange Administration 1234_001
Exchange Management Console 1234_002
Exchange Management Shell 1234_003
Advanced Shell Features 1234_004
Removing Exchange 2003 1234_005
Email Domains 1234_006

Email Recipients, Mailboxes, Mail-Enabled Groups, Public Folders and Message Flow in Exchange Server
Course Number: 1235
Time: 195 Minutes

Look at how to configure recipients, use resource mailboxes, set up groups, access public folders, and work with message flow. The Configure Recipients section explains how to disable or remove recipients, describes the different types of recipients and mailboxes, and how to remove a mailbox. Public folders are for shared data. In working with these, you should know the requirements for them, how to set up client settings, and how to remove public folders and public folder databases. The last portion of the course is spent teaching you about message flows, which involve hub transport servers, connectors, and configuring message limits. Explore all the details behind configuring public folders and recipients to prepare for the 70-236 TS: Configuring Exchange Server 2003 exam (retired).

Configure Recipients 1235_001

Course Number: 1236
Time: 225 Minutes

Spend some time studying the Exchange infrastructure as you look specifically at the edge transport server, spam and transport rules, client connectivity and access, and compliance features. In the rules section, you will learn about rule precedence, filtering, rule types, rule creation, and classification application. For client connectivity and access, you will work with Outlook Web Access, create and apply certificates, configure recipients, and set mailbox policies. The compliance features covered include journaling, Messaging Records Management, custom folders, managed folder mailbox policy, and Managed Folder Assistant. Overall, you will increase your understanding of how to configure Exchange Server 2007 and prepare to sit for Microsoft’s 70-236 exam (retired).

Edge Transport Server 1236_001
Spam Rules 1236_002
Transport Rules 1236_003
Compliance Features 1236_004
Client Connectivity 1236_005
Configuring Client Access 1236_006

Outlook, LCR, CCR, Disaster Recovery, Troubleshooting and Message Tracking in Exchange Server 2007
Course Number: 1237
Time: 270 Minutes

Microsoft’s 70-236 exam (retired) requires that understand how to monitor and troubleshoot Exchange Server 2007. Some of the topics that fall under this umbrella of monitorization and troubleshooting include replication, message tracking, and mail flow troubleshooting. In the mail flow troubleshooting section, you will learn details about mail queues, the Queue Viewer, system monitoring, and the Performance Monitor. Other topics covered in this course are data recovery, disaster recovery, and connecting with Outlook from client machines. In data and disaster recovery, you will find instructions on how to protect data, execute a full server recovery, understand more...
about database portability, observe how to create recovery storage groups and a recovery database, and learn the steps taken to recover data.

Connecting with Outlook ........................ 1237_001
Local Continuous Replication.................... 1237_002
Cluster Continuous Replication ................. 1237_003
Disaster Recovery ................................. 1237_004
Data Recovery ........................................ 1237_005
Mail Flow Troubleshooting ....................... 1237_006
Message Tracking .................................... 1237_007

Exchange Server 2003

■ Exchange 2003 Implementation (70-284) Series
Installation, Upgrading and Decommissioning Exchange Server 5.5 in Exchange Server 2003

Course Number: 1227
Time: 225 Minutes

Learn all the skills, techniques, and knowledge you need to prepare for Microsoft’s 70-284 Implementing and Managing Microsoft Exchange Server 2003 exam (retired). In preparation for the exam, you need to know the prerequisites for the exam, about the different editions of Exchange Server 2003, and about the hardware, software, and Active Directory requirements. Now you understand what’s expected of you. From there, you’ll take a look at a basic Exchange Server 2003 installation. You’ll go through a pre-check list, the deployment tools, adding services, and the procedure to install the server. In some environments, a full installation is not needed just upgrading will suffice for meeting the company’s needs. In that case, you would need to know about upgrading methods, tools like the Upgrade AD Connector, and tips to successfully upgrade. Part of the upgrade process is decommissioning older versions of the server. So you will also find instructions on how to do that. Gain the preliminary knowledge you need to implement Exchange Server 2003.

Basic Exchange Installation ...................... 1227_001
Upgrading Methods .............................. 1227_002
Upgrade 5.5 Organization ...................... 1227_003
Decommission Exchange 5.5 .................... 1227_004

Clustering, Management Tools, Policies and Recipients in Exchange Server 2003

Course Number: 1228
Time: 270 Minutes

Continuing the discussion on installation methods, you will look at advanced installations and the ways that installation changes for clustered environments. In the section focusing on installation in clustered environments, you will study the elements, resources, and requirements for a cluster environment; the role of virtual servers; how to move the mailbox; and how to install Exchange Server 2003. Other topics that you will learn details about include management setup using the Exchange System Manager and permissions, Exchange policies particularly how to create and implement them, and recipients. In the recipients section you will concentrate on enabled objects, management of recipients, the Exchange Task Wizard, setting user properties, and advanced settings. Immersing yourself in these topics will help you to prepare for Microsoft’s Implementing and Managing Microsoft Exchange Server 2003 (70-284 retired) exam.

Advanced Installations ............................ 1228_001
Clustered Environments .......................... 1228_002
Clustered Installations ............................ 1228_003
Management Setup ............................... 1228_004
Exchange Policies ................................. 1228_005
Recipients ......................................... 1228_006

Groups, Contacts, Recipient Policies, Address Lists, Mailbox Stores and Public Folders in Exchange Server 2003

Course Number: 1229
Time: 225 Minutes

You will focus on access, storage, and address lists. Managing groups and contacts and configuring recipient policies are the topics encompassed under access. You will go through the process of creating groups, managing contacts, applying recipient policies, managing the mailbox, validating email policy, and filtering policies. For the storage section, you will learn about mailbox store for data storage and public folders for shared data. For each of these, you need to understand how to properly monitor and manage them. In the address list section, you will concentrate on using the list, creating lists like the global address list and alternate global address list, setting up offline address lists, and utilizing the Recipient Update Service. All in all, the topics covered in these discussions
will assist you in gaining the knowledge and skills you need to prepare for Microsoft’s 70-284 Implementing and Managing Microsoft Exchange Server 2003 exam (retired).

Manage Groups/Contacts.......................... 1229_001
Recipient Policies............................... 1229_002
Address List................................. 1229_003
Mailbox Store............................... 1229_004
Public Folders............................... 1229_005

Server Management,
Connectivity, Connectors and
SMTP in Exchange Server 2003
Course Number: 1230
Time: 270 Minutes

Dive into the details of setting up networking capabilities on the server and managing servers. Observe how to configure server properties, implement diagnostic logging, the procedure for monitoring server health and clusters, the steps to moving servers, and how to remove routing group members. The discussion on networking capabilities is broken up into four different topics — connectivity, front-end and back-end servers, connectors, and SMTP. In SMTP, you will study SMTP mail routing, the role of the SMTP Connector, how to setup SMTP settings and security, and the way to implement a private SMTP session. If you’re looking to prepare for the 70-284 Implementing and Managing Microsoft Exchange Server 2003 exam (retired) offered by Microsoft, these topics will solidify your understanding of networking concepts and the procedures and tools involved in managing the server.

Managing Servers.............................. 1230_001
Moving Servers......................... 1230_002
Connectivity.......................... 1230_003
Front-end/Back-end Servers............ 1230_004
Connectors.......................... 1230_005
SMTP................................. 1230_006

Security, Name Resolution,
AD, Backup and Recovery
in Exchange Server 2003
Course Number: 1232
Time: 225 Minutes

Are you familiar with how to secure Exchange server? Do you understand the relationship between Active Directory and Exchange server? If not, learn about these topics. You will pay close attention to how to monitor threat control, configure firewalls, use and request email certificates, the definition of MX records, and how to view global catalogs. Backup and recovery is another topic focused on here. At the end of that section, you will have a better understanding of how to implement disaster recovery, what the different backup types are, how to use the Mailbox Recovery Center, how to create recovery storage groups, and the process to backup Exchange and restore. So make sure you have a firm grasp on these topics to prepare to sit for Microsoft’s Implementing and Managing Microsoft Exchange Server 2003 (70-284 retired) exam.

Securing Exchange......................... 1232_001
Securing Messages..................... 1232_002
Name Resolution....................... 1232_003
Active Directory.................... 1232_004
Backup & Recovery................ 1232_005
Public Folders, Client Strategy, Mobile Client Access, Security and Multi-Forest Connectivity in Exchange Server 2003

Course Number: 1226
Time: 240 Minutes

Public folders, client strategies for connecting to Exchange and working with other messaging clients, security, and maintenance are the focus of this course. The security section provides you with details on SMTP security, Spam protection, filtering, authentication and encryption, as well as general security. In the maintenance section, you will go over the procedures involved in upgrades and migrations. There is also a section dedicated to multi-forest connectivity particularly between forests looking at message flow, public folders, and moving mailboxes. Gain a firm understanding of these topics to prepare for the former 70-285 Designing a Microsoft Exchange Server 2003 Organization exam.

Outlines, Tasks, Scheduling, Critical Path, Task Calendars, and Resources in Project 2003

Course Number: 1332
Time: 225 Minutes

When you see the full scope of what Microsoft Project is capable of, you will want to use it for all of your projects. Project 2003 offers you a variety of tools to work with tasks, scheduling, and resources. Concentrate on working with tasks as you outline task lists, gaining an understanding of task relationships, establishing a critical path, and creating task calendars. For the scheduling section, you will go over adding constraints and deadlines. Resource topics covered include the resource list, resource details, resource calendars, resource options, assigning resource, resource information and availability, cost and rates, and forming a resource pool. With Project 2003, project management is simplified. Take time to find out what Project 2003 offers to meet your needs.

Microsoft Project

Project 2003 Series

Getting Started, Creating Projects, Adding Tasks, Importing Data and Adding Documents in Project 2003

Course Number: 1331
Time: 195 Minutes

Microsoft’s Project 2003 is an invaluable tool that assists project managers in organizing and managing their projects. Immersing yourself in the 2003 interface as you learn about the different versions, settings, advanced views, templates, menus, and toolbars. This training also gives you a brief introduction to project management concepts, specifically the difference between operations and projects, project elements, and project phases. After covering those basics, you will begin observing how to execute certain tasks - creating projects, adding tasks, importing data, and adding documents. In the adding tasks section, you will set durations, create milestones, and see how to list, edit, and order tasks. Explore all the features and capabilities of Project 2003.

Outlining Task Lists.......................... 1332_001
Task Relationships............................ 1332_002
Scheduling........................................ 1332_003
Critical Path....................................... 1332_004
Task Calendars................................. 1332_005
Resources......................................... 1332_006
Resource Variations......................... 1332_007

Filters, Grouping, Sorting, Adjusting Resources, Tracking Progress, Resolving Conflict and Reports in Project 2003

Course Number: 1333
Time: 225 Minutes

Complete your project planning as you specify baselines, go over the interim plan, modify costs, and view variance. You will spend time learning about the tools in Project 2003 that are used to filter, group, and sort; exploring advanced views, which will help you track Gantt, work
with forms, and access the resource management toolbar; adjusting resources; and learning to track progress. When working on any project, you are bound to encounter some conflict. Equip yourself to address it by gaining an understanding of how to adjust resources, leveling, and ways to respond to overallocation. There is also a section that concentrates on reports and sharing information, in which you will study report types, object linking and embedding, copy pictures, and formatting, customizing, previewing, and exporting reports.

Finalize Planning ............................. 1333_001
Filter, Group, and Sort ...................... 1333_002
Using Advanced Views .......................... 1333_003
Adjust Resources ............................... 1333_004
Tracking Progress ............................. 1333_005
Resolving Conflict ............................. 1333_006
Reports and Sharing Information .......... 1333_007

Project Server 2007

Project Server 2007 All-In-One Series

Overview, Enterprise Project, Users, Groups, Calendars, Custom Fields and RBS in Project Server 2007

Course Number: 1361
Time: 180 Minutes
Number of Quizzes: 2 Quizzes

When you first get started with Project Server 2007, some of the first things you want to know about are the prerequisites to working with this solution, the server infrastructure, interoperability issues with other Office products, and the differences between the Project Server 2007 editions. With an understanding of those introductory elements, you can then build on that by learning how to access Project Server using a connection strategy, and how to begin a project by outlining the project proposal, limitations, and tasks. This training will walk you through all those processes, as well as instruct you in the new enterprise project, how to work with users and groups, the ways that you can customize Project Server calendars and fields, and the Resource Breakdown Structure. Dig into these topics to thoroughly understand Project Server 2007.

Project Server Overview ....................... 1361_001
Accessing Project Server ...................... 1361_002
New Enterprise Project ....................... 1361_003

Users and Groups ............................ 1361_004
Customizing Calendars ....................... 1361_005
Custom Fields .................................. 1361_006
Resource Breakdown Structure .............. 1361_007


Course Number: 1362
Time: 165 Minutes
Number of Quizzes: 2 Quizzes

Project Server 2007 offers you a variety of tools to manage your projects and project resources. Concentrate on working with and assigning project resources as you learn about generic resources, resource concepts, building teams, using the resource substitution wizard, and substitution resources. You will also find details on publishing the project, documenting project-related information, and updating projects. In the section dedicated to updating projects, you will study time tracking, server settings, reports, the steps to updating, how to respond to requests, the process of manual project updates, how to set an interim plan, and display tracking fields. Within this training, there is a large amount of content describing the features and capabilities of Project Server 2007. Absorb as much as you can to utilize this tool to its fullest extent in your projects.

Working with Enterprise Resources .......... 1362_001
Assigning Enterprise Resources .......... 1362_002
Publishing the Project ....................... 1362_003
Project-Related Information ............... 1362_004
Updating Projects ........................... 1362_005


Course Number: 1363
Time: 225 Minutes
Number of Quizzes: 2 Quizzes

Part of project portfolio management is conducting analysis, evaluating risk, and keeping track of project status. The process of conducting analysis is covered in the earned value analysis section, where you’ll learn about EVMS and variance and earned value tables. In the discussion on evaluating risk, you are effectively studying
how to manage risks and issues by comparing project versions. And then to train in tracking project status, you will concentrate on reporting concepts, customizable PWA views, visual reports, and understanding OLAP cubes and terminology. All of these tasks can be conducted in Project Server 2007. Other crucial tasks that can be conducted to help you manage a project include configuring personal settings, using PWA views, tasks associated with the process of finalizing a project, and the procedures and considerations involved in enterprise project management review. Discover all of the features and tools available to you through Project Server 2007 for project portfolio management.

Earned Value Analysis.......................... 1363_001
Managing Risks and Issues...................... 1363_002
Personal Settings................................ 1363_003
PWA Views........................................ 1363_004
Reporting Project Status......................... 1363_005
Finalizing the Project............................ 1363_006
EPM Review...................................... 1363_007

**Project Server 2007 All-In-One**

Course Number: 67  
Time: 345 Minutes  
Number of Quizzes: 7 Quizzes

Gain in-depth Project 2007 knowledge from industry-leading instructor Erin Olsen. When you complete this training, you’ll feel confident in your ability to plan, manage and track the advancement of projects with Microsoft Project Server 2007. This training will prepare you for Project 2007 Server exams 70-632, 70-633 and 70-634.

Project Server Overview....................... 67_001
Accessing Project Server....................... 67_002
New Enterprise Project....................... 67_003
Users and Groups............................. 67_004
Customizing Calendars......................... 67_005
Custom Fields.................................. 67_006
Resource Breakdown Structure................ 67_007
Working with Enterprise Resources.......... 67_008
Assigning Enterprise Resources............... 67_009
Publishing the Project......................... 67_010
Project-Related Information................... 67_011
Updating Projects............................. 67_012
Earned Value Analysis........................ 67_013
Managing Risks and Issues................... 67_014
Personal Settings............................. 67_015
PWA Views...................................... 67_016
Reporting Project Status...................... 67_017
Finalizing the Project......................... 67_018
EPM Review.................................... 67_019

**SharePoint Server 2010**

**SharePoint 2010 Administration (70-668) Series**

**Logical Taxonomy, Server Farm Installation & Configuration in SharePoint 2010**

Course Number: 790  
Time: 135 Minutes  
Number of Quizzes: 1 Quiz  
Number of Labs: 6 Labs

Are you looking to learn about server farm installation and configuration? Are you looking to prepare for Microsoft’s 70-668 exam? Then start out by learning about designing a SharePoint 2010 farm topology and planning SharePoint 2010 deployment. You will take a look at integration with the SQL server and the ways that high availability is implemented on the database. You will also study how to configure a SharePoint farm, upgrade previous version of SharePoint, and migrate sites and databases to transfer data or convert databases to read-only mode. Go through all the must-know topics with which you must be familiar concerning planning a farm, installing a server farm, and migrating sites and databases to prepare for the 70-668 exam.

Planning the Farm............................. 790_001
Database Backend............................. 790_002
Providing High Availability.................. 790_003
Installing the Server Farm................... 790_004
Configuring the SharePoint Farm............. 790_005
Upgrading Previous Versions............... 790_006
Migrating Sites and Databases.............. 790_007

**SharePoint Maintenance and Enterprise Content Management in SharePoint 2010**

Course Number: 793  
Time: 165 Minutes  
Number of Quizzes: 3 Quizzes  
Number of Labs: 5 Labs

After a SharePoint server is up and running, continuous maintenance is necessary to ensure it is operating to its fullest potential. You will focus on how to maintain servers...
Standard Courses

by planning maintenance and monitoring, explore the
benefits of the SharePoint Search, and learn how to back
up the farm. In maintenance and monitoring, you will
look at the change management policy, diagnostic logging,
planning patches and automated maintenance. From there,
you attention will shift to the SharePoint Search, which
also encompasses discussions on Enterprise Search and
enterprise content management. You will also learn about
the Business Intelligence Center, social computing, and
collaboration through profiles and blogs. Prepare for
Microsoft’s 70-668 exam.

Security & Account
Management in SharePoint 2010
Course Number: 792
Time: 130 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 15 Labs

SharePoint 2010 Administrator training video prepares
candidates for Microsoft’s 70-668 exam. Topics covered
include defining a SharePoint 2010 operations strategy,
managing Web applications, and establishing security
within SharePoint 2010. In discussing operations strategies,
you will explore self-service site collection settings, how
to manage the farm administrators group, controlling site
templates, and managing anonymous access policy. The
security section encompasses planning authentication,
designing security architectures, managing authentication
providers, and planning account management.

Managing Web Applications .................. 792_001
SharePoint Security Overview ................ 792_002
Planning Authentication ........................ 792_003
Designing Security Architectures ............ 792_004
Managing Authentication Providers .......... 792_005
Planning Account Management ............... 792_006
Provisioning Strategies and Methods ......... 792_007

Designing the Architecture,
Supporting Services & Network
Integration in SharePoint 2010
Course Number: 789
Time: 150 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 12 Labs

Microsoft’s 70-668 exam assesses your knowledge of
SharePoint 2010. Begin your preparation for this exam
by learning the details on how to design a security
architecture, describes the different supporting services
used with SharePoint 2010, and explains how to integrate
SharePoint into an enterprise’s network. To integrate
SharePoint into an enterprise network, you have to
consider what enterprise features are needed for that
environment, lay out the physical architecture, as well as
plan the supporting services that will be configured for
example DNS and Active Directory. To actually facilitate
a SharePoint integration, it is important that administrators
have a good grasp on networking basics, the OSI Model,
networking protocols, farm communications, and
the network perimeter. You will also find details on designing
the logical taxonomy, which includes site hierarchy
planning, setting security boundaries, and more. Each
topic is essential to understanding the scope of SharePoint
2010’s abilities.

Introduction................................... 789_001
Enterprise Features........................... 789_002
Designing the Physical Architecture........ 789_003
Planning Supporting Services ............... 789_004
Integrating with the Network ............... 789_005
Designing Logical Taxonomy ............... 789_006

Service Applications & SharePoint
Components in SharePoint 2010
Course Number: 791
Time: 120 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 7 Labs

Service applications enable you to share services across
Web applications. You will find explanations on how
service applications are planned, along with explaining
how to plan SharePoint components. You will also spend
time studying the steps to planning for Sandbox and
site templates. In the site templates section, you will
find demonstrations on how to create a new site using a
template, how to create a meeting workspace, configuring
site settings, working with custom templates and master
pages, and how to customize the page layout. These are
just some of the topics that you will delve in to help prepare you for Microsoft’s 70-668 exam.

Understanding Service Applications .......... 791_001
Planning Service Applications ................. 791_002
Planning SharePoint Components .............. 791_003
Deploying and Managing Components ........... 791_004
Planning for Sandbox Solutions .............. 791_005
Site Templates .................................... 791_006

Installing, Deploying & Configuring SharePoint 2010
Course Number: 785
Time: 120 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 7 Labs

You will start by learning about the details encompassed in the MCTS exam along with SharePoint 2010’s interface and new features. Spend time concentrating on planning your server deployment by looking at software and hardware requirements, SharePoint scaling, troubleshooting solutions, and upgrading an installation. After planning comes deployment where you install SharePoint prerequisites, verify the infrastructure, and install SharePoint 2010. There is also a section dedicated to configuring SharePoint through the Products Configuration Wizard and the Initial Farm Configuration Wizard. Cover all the topics you must be familiar with concerning installing, deploying, and configuring SharePoint 2010, in order to successfully prepare for the 70-667 exam.

Introduction ...................................... 785_001
SharePoint 2010 New Features ................. 785_002
Installation Planning ......................... 785_003
Upgrade Planning ............................... 785_004
Deploying SharePoint 2010 .................... 785_005
Configuring SharePoint 2010 .................. 785_006

Applications, Site Collections and Sites in SharePoint 2010
Course Number: 786
Time: 135 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 8 Labs

Walk through the SharePoint infrastructure by looking at the relationships between sites, service and Web applications, and site collections. The discussion on service applications begins with the SA architecture and terminology to establish your understanding of service applications, shows you how service applications function differently in the various Editions of SharePoint, and then explains SA security, benefits, and the communication process. Topics covered include understanding and configuring service applications, creating and managing Web applications, working with and managing site collections, and creating sites. Prepare for the MCTS 70-667 exam.

Understanding Service Applications .......... 786_001
Configuring Service Applications .......... 786_002
Creating Web Applications .................. 786_003
Managing Web Application Settings .......... 786_004
Working with Site Collections .............. 786_005
Managing Site Collections .................... 786_006
Creating Sites .................................... 786_007

SharePoint Search, Maintaining, Monitoring, & Managing SharePoint 2010
Course Number: 787
Time: 150 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 4 Labs

Gain a better understanding of how to maintain SharePoint; plan, configure, and work in SharePoint Search; troubleshoot SharePoint; and understand how to implement SharePoint security. SharePoint Search functions as a search engine with different features and capabilities depending on the version offering administrators a lot of power and flexibility. Under the discussion of SharePoint security, there is also a presentation on how to manage groups and users to establish access permissions. Broken apart are all the topics with which you must be familiar, in order to successfully prepare for the maintenance and security portions of the 70-667 exam.

Configuring Search ................................ 787_001
Operational Management ..................... 787_002
Troubleshooting SharePoint ................. 787_003
Understanding SharePoint Security ........ 787_004
Managing Users and Groups ............... 787_005

Authentication, Performance & Restoration in SharePoint 2010
Course Number: 788
Time: 20 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 4 Labs

The Microsoft 70-667 exam is intended for candidates who design and deploy Microsoft SharePoint Server 2010 infrastructures. Prepare for the 70-667 exam by learning
how to monitor SharePoint, recover SharePoint, and about the role of authentication providers. In SharePoint monitoring, some of the tools explored are the CA Health Analyzer, the CA Administrative Reporting tool, Diagnostic Logging, and the Performance Monitor. Though administrators attempt to guard SharePoint by setting up authentication processes and troubleshooting issues, you must also be ready for the worst case with backup and recovery plans to successfully restore your environment.

Authentication Providers…………………….. 788_001
Monitoring SharePoint 2010…………………… 788_002
Performance Tuning……………………………. 788_003
SharePoint 2010 Features and Solutions……….. 788_004
SharePoint Backup and Restore…………………. 788_005

Navigating SharePoint 2010 and Creating Site Collections
Course Number: 783
Time: 75 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 2 Labs

SharePoint is a collaboration software that allows users to access resources from anywhere at any time. Be introduced to SharePoint 2010 and its latest updates. The purpose of this course is to demonstrate how to navigate around SharePoint, and how to create site collections. Site collections refer to a grouping of sites that have something in common. You will see how to create a site collection. In order for a site collection to exist, you must understand how to create different types of sites from a template, and how to work with My Sites.

Introduction……………………………………….. 783_001
Interface Overview…………………………….. 783_002
Creating Site Collections and Sites……………. 783_003

Lists, Libraries & SharePoint Integration in SharePoint 2010
Course Number: 784
Time: 75 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 7 Labs

You will discover how to create sites, lists, libraries, and more. Within the discussion on lists and libraries, you will find explanations on how to add and delete list items, create a custom list, create lists from a template, and customize libraries. You will also learn how to create and customize Web pages by adding Web parts. You will also spend time observing how Office 2010 and SharePoint integrate to work with Office documents and edit site objects. You will begin creating a solid foundation for earning advanced Microsoft certifications, such as Microsoft Office Specialist (MOS): SharePoint 2010.

Working with Lists and Libraries……………….. 784_001
Creating and Customizing Pages……………….. 784_002
Office 2010 and SharePoint Integration……….. 784_003

SharePoint Server 2007

SharePoint Server 2007 (70-630) Series
Deployment, Installation, Initial Configuration Tasks and Central Administration in SharePoint Server 2007
Course Number: 1209
Time: 120 Minutes
Number of Quizzes: 1 Quiz

The 70-630 exam assesses administrators’ knowledge of managing and configuring a SharePoint Server 2007 in a corporate environment. To start, you’ll look at the features and applications of SharePoint. You will then shift your attention to exam details as you review an outline of the exam prerequisites and objectives. Next, you’ll concentrate on designing and implementing SharePoint as you create design goals, set up a single architecture, explore integration with Office 2007 and Active Directory, and plan deployment. There is also a section dedicated to SharePoint installation and configuration where you’ll learn about the different hardware and software requirements, find demonstrations on using the SharePoint Configuration Wizard, setting up antivirus protection, and using Central Administration.

SharePoint……………………………………….. 1209_001
Planning Deployment……………………………. 1209_002
Installing SharePoint……………………………. 1209_003
Initial Configuration Tasks………………………. 1209_004
Central Administration………………………… 1209_005
Sites, Users, Groups, Authentication, Records, Web Parts and Pages in SharePoint Server 2007
Course Number: 1210
Time: 225 Minutes
Number of Quizzes: 2 Quizzes

To be a SharePoint administrator, you need a solid understanding of how to use SharePoint as a collaboration site as well as a content manager. Explore SharePoint’s collaboration features as you train in building sites, creating and managing users and groups, securing access, and managing records. In the sites section, you will learn about site provisioning, how to create site collections, how to create sites from site templates, how to add applications, and about using blog sites. Taking sites a step further, you’ll focus on Web parts and Webpages looking at authoring them, adding Web parts, and editing them. All in all, the topics covered will aid in preparing you for the SharePoint 2007 70-630 exam.

SharePoint Sites ...................... 1210_001
Building Sites......................... 1210_002
Users and Groups .................... 1210_003
Managing Users and Groups .......... 1210_004
Authentication ....................... 1210_005
Managing Records ................... 1210_006
Web Parts and Pages .................. 1210_007

Course Number: 1211
Time: 255 Minutes
Number of Quizzes: 2 Quizzes

Familiarize yourself with content management features of SharePoint such as lists, libraries, and navigation. In the navigation section, you’ll learn the new search features, how to plan search and crawl settings, conduct searches, and manage crawl rules. Alongside content management, SharePoint can be used for business intelligence needs. Discover all the tools and features associated with BI.

There’s also a section dedicated to taking a closer look at how SharePoint integrates with email and Excel. You will specifically study Outlook 2007’s interoperability with SharePoint, how to create document libraries, the components of Excel services, and the steps to adding trusted file locations. In the end, you will be thoroughly prepared to test in SharePoint integration, content management, and search capabilities. These are topics that you can expect to see in the SharePoint 70-630 exam.

Lists and Libraries .................... 1211_001

Navigation and Searching .................. 1211_002
The Search Interface .................. 1211_003
Email Integration ..................... 1211_004
Excel Interaction ..................... 1211_005
Using Excel ......................... 1211_006
Business Forms ...................... 1211_007
Business Intelligence .................. 1211_008

Central Administration, Shared Services, Web Content Management and Backup in SharePoint Server 2007
Course Number: 1212
Time: 195 Minutes

Train in Central Administration, Shared Services, Records Center, Web content management, upgrading and migration, and backup and restoration. Central Administration is the place where you set site content settings and operating settings, create alerts, and block file types. Upgrades, migrations, backups, and restoration are improvement and recovery options, respectfully, available to maintain SharePoint Server 2007. Some of the tasks associated with improvement and recovery are upgrading paths, using Stsadm, creating a backup location, planning a migration, and restoring data. Each topic covered will prepare you to sit for the SharePoint 70-630 exam.

Managing Central Administration ........ 1212_001
Shared Services ...................... 1212_002
Records Center ....................... 1212_003
Web Content Management .......... 1212_004
Backup and Restoration ............. 1212_005
Upgrading and Migration ............ 1212_006

Configuring Office SharePoint Server 2007 (70-630) (Consolidated)
Course Number: 68
Time: 555 Minutes
Number of Quizzes: 8 Quizzes

Gain an understanding of how to utilize Microsoft’s SharePoint Server 2007 with this LearnSmart training. IT professional instructor Tom Carpenter teaches you how SharePoint Server 2007 can help improve organizational effectiveness by providing comprehensive content management and enterprise search, accelerating shared business processes, and facilitating information sharing across boundaries for better business insight. When you complete this training, you will learn all of the objectives to help you pass Microsoft’s 70-630 exam. Supplemental
learning tools include audio training, practice exams, study guide and more.

Introduction .................................................. 68_001
SharePoint ...................................................... 68_002
Planning Deployment ................................. 68_003
Installing SharePoint ................................. 68_004
Initial Configuration Tasks ......................... 68_005
Central Administration ............................... 68_006
SharePoint Sites .............................................. 68_007
Building Sites ................................................ 68_008
Users and Groups ............................................ 68_009
Managing Users and Groups .................. 68_010
Authentication .............................................. 68_011
Managing Records ......................................... 68_012
Web Parts and Pages ..................................... 68_013
Lists and Libraries ......................................... 68_014
Navigation and Searching ....................... 68_015
The Search Interface ...................................... 68_016
E-mail Integration ........................................ 68_017
Excel Interaction ........................................... 68_018
Using Excel .................................................. 68_019
Business Forms ............................................. 68_020
Business Intelligence ................................. 68_021
Managing Central Administration .............. 68_022
Shared Services ............................................. 68_023
Records Center ............................................. 68_024
Web Content Management ..................... 68_025
Backup and Restoration ......................... 68_026
Upgrading and Migration ......................... 68_027

SharePoint 2007 Series

Sub Sites, Workspaces, Announcements, Calendar and Contacts in SharePoint 2007

Course Number: 1385
Time: 270 Minutes
Number of Quizzes: 2 Quizzes

Looking at this edition of SharePoint 2007, you will discover just what it has to offer. Immerse yourself in the SharePoint environment as you deepen your understanding of SharePoint, begin collaborating through it, explore SharePoint technologies, and improve workflow. You’ll lay a foundational knowledge of SharePoint sites, their structure and components, ways to navigate within them, and the role of subsites. There’s a section of the course dedicated to workspaces, where you’ll learn about meeting, Outlook, and document workspaces specifically how to create them, manage and update them, and view them. Wrap up your training as you walk through discussions on announcements, calendars, and contacts. Explore SharePoint Server 2007.

SharePoint Services Overview .................. 1385_001
What Makes a SharePoint Site? ............... 1385_002
Creating Sub Sites and Workspaces ......... 1385_003
Creating Workspaces from Applications .... 1385_004
Document Workspaces ............................ 1385_005
Announcements ...................................... 1385_006
Calendar .................................................. 1385_007
Contacts .................................................... 1385_008


Course Number: 1386
Time: 240 Minutes
Number of Quizzes: 2 Quizzes

Gain an understanding of the tools, techniques, and skill that will enable you to use SharePoint Server 2007 to its fullest potential. The scope of this training covers issue tracking, lists, libraries, and its interoperability with Office. For the lists section, you will walk through the process of managing them using general settings, list versioning settings, list permissions, item permissions, and item approval; manipulate list views to customize list views, modify default views, group items, and create a new view; and customize lists. The interoperability section concentrates on Excel and Access. You will find demonstrations on exporting to those programs, editing and updating data, defining data location, exporting and creating SharePoint lists, and creating databases. SharePoint Server 2007 will be a great asset to assisting you in managing content and collaborating with others.

Issue Tracking and Tasks ....................... 1386_001
Managing Lists ........................................... 1386_002
List Views .................................................. 1386_003
Customizing Lists .................................... 1386_004
Working with Libraries ......................... 1386_005
Library Settings ......................................... 1386_006
Working with Excel ................................. 1386_007
Working with Access ............................... 1386_008
Wiki Sites ........................................... 1387_001
Blog Sites ........................................... 1387_002
Blogging from Word ................................ 1387_003
Forms Library ........................................ 1387_004
Surveys .................................................. 1387_005

Windows SharePoint Services 3.0 (70-631) Series
Design Concepts, Site Settings, Master Pages, & Templates in Windows SharePoint Services 3.0
Course Number: 979
Time: 105 Minutes
Number of Quizzes: 5 Quizzes

Understand how to utilize SharePoint Services 3.0 to increase the efficiency of business processes and improve team productivity with tools for collaboration that help people stay connected. Walk through various design concepts in particular site structure, access and permissions, and reusable content. Additionally, you will explore how to make modifications to site settings and page design, how to use SharePoint Designer, and the benefits of master pages and templates.

Design Concepts ..................................... 979_001
Modifying Site Settings ............................ 979_002
Modify Page Design ................................. 979_003
SharePoint Designer ................................. 979_004
Master Pages ......................................... 979_005
List and Site Templates ............................. 979_006

Workflow, Administration, Backup & Restore in Windows SharePoint Services 3.0
Course Number: 980
Time: 120 Minutes
Number of Quizzes: 4 Quizzes

You will learn the purpose and functionality of Workflow, and how to monitor and conduct various administrative functions in this SharePoint system. You will also see demonstrations on how to back up and restore SharePoint Services. The administrative functions included in this training include central administration in the Central Administration Site and Operations and Management; basic administration of quota templates and Web application general settings; and site administration by defining site administrators and permissions, and using groups.

Workflow Overview .................................. 980_001
Standard Workflow ................................. 980_002
Custom Workflows ................................. 980_003
Central Administration ............................ 980_004
Basic Administration ............................... 980_005
Site Administration ................................. 980_006
Backup and Restore ............................... 980_007

Databases, Monitoring, Security, Topology, Scalability, Upgrading, & Uninstalling in Windows SharePoint Services 3.0
Course Number: 981
Time: 120 Minutes
Number of Quizzes: 3 Quizzes

Many important topics are touched on providing you with an excellent overview of SharePoint Services 3.0. Specifically, walk through how to manage connections, monitor the system, implement security, and how to install, upgrade, and uninstall SharePoint. Managing connections requires having an understanding of databases and blocked file types. Additional concepts encompassed within this course are topology and scalability in SharePoint Services, which involves looking at the environment, user needs, site considerations, and farm and single server topology.

Managing Connections ............................ 981_001
Advanced Monitoring ............................. 981_002
Advanced Security ................................. 981_003
Topology and Scalability ......................... 981_004
Installing SharePoint ............................. 981_005
Upgrading SharePoint 2.0 ....................... 981_006
Uninstalling SharePoint ......................... 981_007
The 70-450 certification exam evaluates an individual’s ability to execute certain administrative tasks on Microsoft’s SQL Server 2008. One of those tasks is being able to design database solutions. Some considerations to keep in mind when executing this task are CPU requirements, the difference between 32-bit and 64-bit computers, how to gather historical information, design tips, the difference between hardware and software NUMA, and the steps involved in configuring SQL Server for soft NUMA. You’ll also want to solidify your understanding of tempdb, designing SQL Server instances, physical databases, and creating databases with transact-SQL. Specifically for the SQL Server instances section, you will learn maximum SQL Server instances, the benefits and risks associated with it, multi-instance memory, how to set instance properties, ways to manage Windows and SQL Server collations, and sort case-sensitive data. Begin immersing yourself in the techniques and skills needed to work with SQL Server 2008.

Designing Database Solutions............... 1411_001
Storage Considerations..................... 1411_002
Understanding Tempdb ...................... 1411_003
Designing SQL Server Instances.......... 1411_004
Other Instance Configuration Options ...... 1411_005
Understanding Physical Databases ........ 1411_006
Creating Databases with Transact-SQL ....... 1411_007

FILESTREAM, Full-Text Indexes, Upgrade Planning, Consolidation, Authentication, Key Management and Securing

In preparation for the 70-450 certification exam, learn about FILESTREAM, full-text indexes, planning a SQL Server upgrade, database consolidation, key management, and securing endpoints. For the discussion on key management, you will look at instance level permissions, certificates, encryption methods, back up service master key, and the details of enterprise key management. You will also spend time to learning about business factors, SQL Server instance authentication, and Windows service accounts. The business factors section covers analyzing business requirements, the principle of least privilege, security areas, common criteria, and costs and benefits of these factors. Deepen your understanding of the skills, processes, and knowledge involved in designing, optimizing, and maintaining a database administrative solution using Microsoft SQL Server 2008.

FILESTREAM and Full-Text Indexes ........... 1412_001
SQL Server Upgrade Planning.................. 1412_002
Understanding Database Consolidation ...... 1412_003
Business Factors............................. 1412_004
SQL Server Instance Authentication......... 1412_005
Windows Service Accounts................... 1412_006
Key Management ............................ 1412_007
Enterprise Key Management............... 1412_008
Securing Endpoints ........................ 1412_009

Permissions, Schemas, Application Roles, Ownership Chaining, CLR, Service Broker, PBM, Events and Data Encryption in SQL Server 2008

Gain a complete understanding of what tasks you need to execute on SQL Server 2008. Study the principles, security steps, processes, and tools associated with database permissions. You will spend time learning about schemas and application roles, ownership chaining, and policy-based management. The policy-based management section covers the following topics: the definition of
policy-based management, how to create a condition, evaluation modes, mail and table name policies, and dev tables. Wrap up this training by concentrating on CLR and Service Broker, extended events and event notification, and encryption strategy. The events section explains packages and targets, event notification tools, and the definition of event notifications. With this training, you will be thoroughly prepared for the 70-450 certification exam.

**Database Permissions** ........................................ 1413_001
Schemas and Application Roles .......................... 1413_002
Ownership Chaining ................................................ 1413_003
CLR and Service Broker ............................................ 1413_004
Policy-Based Management ........................................ 1413_005
Gathering Security Information .......................... 1413_006
Event Notification ...................................................... 1413_007
Encryption Strategy ................................................... 1413_008

**Clustering, Log Shipping, Design Database Mirroring, High Availability and Replication in SQL Server 2008**

Course Number: 1414
Time: 150 Minutes
Number of Quizzes: 1 Quiz

Go over clustering and log shipping in detail as you study the clustering resource group, clustering setup, MSCS service accounts, interoperation requirements, log ship for reporting, consistency check, and monitoring. Other topics covered include design database mirroring, high availability with replication, replication planning, and selecting a high-availability solution. In the high availability with replication section, you will concentrate on replication roles and language, publications and articles, different replication scenarios, remote distribution, types of replication, and how to update subscribers. Discover all the ins and outs to managing SQL Server 2008 in preparation for the 70-450 certification exam.

Clustering and Log Shipping ......................... 1414_001
Design Database Mirroring .......................... 1414_002
High Availability with Replication .............. 1414_003
Replication Planning .................................................. 1414_004
Selecting a High-Availability Solution .......... 1414_005

**Database Recovery, Backups, Recovery Test Plans and OS Level Monitoring Solutions in SQL Server 2008**

Course Number: 1415
Time: 165 Minutes
Number of Quizzes: 1 Quiz

There are many layers of knowledge to work through when dealing with SQL Server 2008. In this training, you’ll concentrate on the elements involved in recovering the SQL server. You will study how to plan database recovery, the tasks and tools involved in executing full backups and restores, transaction log backups and restores, differential backups and restores, and recovery test plans. Along with the recovery and restoration options, you will also spend time looking at OS level monitoring solutions, which covers topics such as System Monitor, data collector sets, SQL server activity monitor, standard reports, WMI eventing, and the steps to monitoring memory, processor, hard disk inputs and outputs, and the baseline. Learn the techniques and tools that will help you prepare for the 70-450 certification exam.

Planning Database Recovery ......................... 1415_001
Full Backups and Restores .............................. 1415_002
Transaction Log Backups and Restores ............ 1415_003
Differential Backups and Restores ................... 1415_004
Recovery Test Plans .................................................. 1415_005
OS Level Monitoring Solutions ....................... 1415_006

**Data Collection, Index Tuning, DMVs, DAC, Data Compression, Heap and Index Maintenance in SQL Server 2008**

Course Number: 1417
Time: 165 Minutes
Number of Quizzes: 1 Quiz

This training concentrates working with data. You will spend time learning about data collection, index tuning and DMVs, page-level data compression, and heap and index maintenance. In the head and index maintenance section, you will study index fragmentation, page fullness concerns, different fragmentation issues, the steps to reorganizing and rebuilding the index, online operations, and heap maintenance. There are also sections that will provide you with details on the Performance Studio and dedicated administrator connections. The dedicated administrator connections section discusses how to establish a DAC connection, the concept of locking, shared locks, monitoring locks, deadlocks, and how to update and intent locks. Prepare for the 70-450 certification exam.

Data Collection .................................................. 1417_001
Standard Courses

- Index Tuning and DMVs......................... 1417_002
- The Performance Studio.......................... 1417_003
- Dedicated Administrator Connections......... 1417_004
- Page-Level Data Compression................... 1417_005
- Heap and Index Maintenance..................... 1417_006

Partitioning, Resource Governor, Management, Compression, Automation Strategies, SSIS, Linked Servers and Replication in SQL Server 2008

Course Number: 1418
Time: 255 Minutes
Number of Quizzes: 2 Quizzes

The topics covered include table partitions, the Resource Governor, linked servers, data distribution, SQL Server Integrated Services, and management and compression. The Resource Governor section provides you with information on its components, how to create a resource pool, create the classifier function, create a workload, how it functions, how to configure workload group settings, how to drop an active workload, use importance, monitoring considerations, as well as find demonstrations on the Resource Governor and queuing. And then for data distribution via replication, you will get into snapshots, filtering, health monitoring, and reviewing replication alerts. The 70-450 certification exam requires that you know the concepts, terminology, and tools used with SQL server. Learn everything there is to know about these topics to prepare for the 70-450 exam.

Table Partitions................................. 1418_001
Implementing Resource Governor............... 1418_002
Understanding Resource Governor............. 1418_003
Resource Governor Monitoring................ 1418_004
Management and Compression.................. 1418_005
Management Automation Strategy............. 1418_006
Administering SSIS.............................. 1418_007
Linked Servers.................................. 1418_008
Data Distribution via Replication.............. 1418_009

SQL Server 2008 Implementation and Maintenance (70-432) Series

Installation, Configuration, SQL Server Components, Database Mail and Full-Text Indexing in SQL Server 2008

Course Number: 1419
Time: 210 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 4 Labs

Designed to help prepare you for Microsoft’s 70-432 certification exam, learn all the skills, tools, and techniques that you need to successfully deploy and maintain SQL Server 2008. To start, you’ll focus on the installation and post-installation processes by looking at installation considerations, demonstrations on installing SQL server, SQL server configuration, service configuration, and database mail configuration. For the installation considerations section, you will go over the different installation options and SQL server options, the CPU requirements, file locations and file structure, how to optimize tempdb, and SQL service accounts. You’ll also study the components of SQL server and full-text indexing. The SQL server components covered include Integration Services, Analysis Services, Reporting Services, the Reporting Services Configuration Manager, and email settings.

Installation Considerations...................... 1419_001
Installing SQL Server............................ 1419_002
Configuring SQL Server Instance............. 1419_003
Configuring Services............................ 1419_004
SQL Server Components........................ 1419_005
Configuring Database Mail..................... 1419_006
Full-Text Indexing.............................. 1419_007

SQL Agent Operators, Jobs and Alerts, Policy-Based Management, Security, SQL Logins and Triggers in SQL Server 2008

Course Number: 1420
Time: 225 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 4 Labs

You will mostly concentrate on SQL server security as you learn about SQL server agent, declarative management framework, permissions, logins, and other security
considerations. Specifically for the SQL server agent, you will learn about SQL agent operators, which describes SQL agent properties, pager and operator notifications, how to create an operator, and the fail-safe operator; SQL agent jobs in terms of job categories, steps, and types; and SQL agent alerts. There is also a section that highlights backing up the SQL server, which explains backup concepts, Windows server backup, and backup schedules. Moreover, these topics will aid in preparing you for the Microsoft SQL Server 2008, Implementation and Maintenance (70-432) certification exam.

SQL Agent Operators......................... 1420_001
SQL Agent Jobs............................. 1420_002
SQL Agent Alerts........................... 1420_003
Declarative Management Framework ...... 1420_004
Backing Up.................................. 1420_005
SQL Security Considerations............... 1420_006
Managing SQL Logins......................... 1420_007
Managing SQL Instance Permissions ....... 1420_008

Auditing SQL Instances, Users and Roles, Schemas, Object Permissions, Transparent Data Encryption and Databases in SQL Server 2008

Course Number: 1421
Time: 210 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 5 Labs

Taking the discussion on SQL server security a little further, you will look into auditing SQL servers, working with users and roles, applying schema and object permissions, and understanding transparent data encryption. In the schema and object permissions section, you learn about schemas, about chain of ownership, when to check security, configuring schema permissions, creating schemas and tables, how to change user default schema, about cross database chaining, impersonation, and about the role of certifications in impersonation. After that, you’ll give your attention to studying database management regarding how to create, manage, and configure databases. Studying these topics will deepen your knowledge of SQL Server 2008 and continue preparing you for the 70-432 certification exam.

Auditing SQL Instances......................... 1421_001
Understanding Users and Roles .............. 1421_002
Managing Users and Roles................... 1421_003
Schema and Object Permissions ............... 1421_004
Transparent Data Encryption ................ 1421_005
Creating Databases.......................... 1421_006
Manage and Configure Databases .............. 1421_007

Backups, Restoring, Database Snapshots and Integrity in SQL Server 2008

Course Number: 1422
Time: 285 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 3 Labs

Server backups and restores are a critical part of maintaining the server. With full backups, log backups, differential backups, and file and filegroup backups, you can conduct restores to prevent data or system configuration loss. While studying backups, you will learn about restore concepts like the difference between restore and recovery, the different restore types, the restore steps, restore options, automatic and manual recovery, restore mirrors and striped sets, and how to restore compressed backup. Alongside these topics, you will also spend time managing database snapshots, where you’ll look at snapshot restrictions, the definition of snapshots, and the process of implementing, restoring, and updating a snapshot; and managing database integrity. Prepare for the SQL Server 2008, Implementation and Maintenance (70-432) certification exam.

Understanding Backups ......................... 1422_001
Performing Full Backups ....................... 1422_002
Restore Concepts............................... 1422_003
Restoring Full Backups ......................... 1422_004
Performing Transaction Log Backups........ 1422_005
Restoring Transaction Log Backups .......... 1422_006
Performing Differential Log Backups......... 1422_007
File and Filegroup Backups .................... 1422_008
Managing Database Snapshots ................. 1422_009
Managing Database Integrity ................... 1422_010

Maintenance, Importing and Exporting Data, Partitioning, Data Compression and Indexes in SQL Server 2008

Course Number: 1423
Time: 225 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 2 Labs

Solidify your understanding of implementing and maintaining SQL Server 2008 as you concentrate on formulating maintenance plans, working with data, understanding indexes, and creating and managing partitions. In the maintenance plans section, you will go over maintenance tasks and how to create maintenance plans. Taking a closer at working with data, you’ll get into the processes, tools, and techniques involved in data compression, and importing and exporting data. Through the index section, you will learn about the pros and cons of
indexing, the effect of indexes, how to use table scan, about data access, the structure of indexes, and about creating indexes. Study all the details associated with SQL Server 2008 to thoroughly prepare yourself for the Microsoft SQL Server 2008, Implementation and Maintenance (70-432) certification exam.

Maintenance Plans .................................. 1423_001
Import and Export Data.............................. 1423_002
Manage Data Partitions.............................. 1423_003
Partitioning ........................................... 1423_004
Data Compression .................................... 1423_005
Understanding Indexes.............................. 1423_006
Index Structures ..................................... 1423_007
Creating Indexes ..................................... 1423_008

Index Options, Metadata, Fragmentation, XML Indexes, Error Logs and Concurrency Problems in SQL Server 2008
Course Number: 1424
Time: 180 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 3 Labs

The first half of this training provides you with additional instruction on indexing. In the indexing section, you will gain a deeper understanding of index options and metadata, index fragmentation, and XML indexes. In the index fragmentation section, you will find details on fixing fragmentation, page fullness, empty pages, pages too full, logical fragmentation, how to reorganize and rebuild an index, online fragmentation operations, the steps to creating clustered index with Fillfactor, tuning options, and filtered indexes. Begin dabbling in troubleshooting on a SQL server as you learn to identify SQL server service problems, error logs, and concurrency problems as in lost updates, dirty read and non-repeatable read, phantoms, job execution problems. Accumulate the skills, knowledge, and experience needed to prepare for the 70-432 certification exam.

Index Options and Metadata ....................... 1424_001
Index Fragmentation ............................... 1424_002
XML Indexes ........................................ 1424_003
SQL Server Service Problems ..................... 1424_004
Error Logs ......................................... 1424_005
Concurrency Problems ............................ 1424_006

High Availability, Clustering, Log Shipping, Replication, Data Collection, Index Tuning, DMVs and MDW in SQL Server 2008
Course Number: 1425
Time: 255 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 3 Labs

Through discussions on SQL server optimization and high availability, you will study clustering, log shipping, replication, data collection, and the Performance Studio. In the data collection section, you will learn about System Monitor, data collector sets, profiler, creating a trace, and monitoring memory, the processor, hard disk input and output, and baselines. You will also go over index tuning and DMVs, where you’ll look into the Database Engine Tuning Advisor, tuning options, Advisor reports, and performance monitoring using DMVs. All in all, you will understand how to optimize and implement high availability on SQL Server 2008, which will aid in preparing you for the 70-432 SQL Server 2008, Implementation and Maintenance certification exam.

Understanding High Availability .................. 1425_001
Clustered Instances ............................... 1425_002
Implementing Log Shipping ....................... 1425_003
Understanding Replication ....................... 1425_004
Planning for Replication ........................ 1425_005
Implementing Replication ......................... 1425_006
Data Collection .................................... 1425_007
Index Tuning and DMVs ......................... 1425_008
The Performance Studio ......................... 1425_009

SQL Server 2005

SQL Server 2005 (70-431) Series
Relational Databases, Transact-SQL, SELECT Statements, Operators and Expressions in SQL Server 2005
Course Number: 1389
Time: 195 Minutes

To understand SQL Server 2005, you need to have some background knowledge concerning databases, data types, nulls, table relationships, client and server architecture, and SQL language. With that knowledge, you can then begin working in the SQL Server Management Studio, with batches, and with OSQL and SQL commands. The
The benefit of SQL Server 2005 is that it allows you to manage and store data. Some ways that data is managed are through statements, language elements, operators, and expressions. Within this training, there’s a section dedicated to each of those topics. In the operators and expressions section, you will study the role of arithmetic, operator precedence, unary and bitwise operators, string concatenation, and table alias. Begin laying your knowledge foundation in SQL Server 2005.

Relational Databases                      1389_001
Starting with SQL                        1389_002
Introduction to Transact-SQL           1389_003
SELECT Statements                      1389_004
Operators and Expressions              1389_005

Filtering, Writing Good WHERE Clauses, Handling Missing Values and Scalar Functions in SQL Server 2005
Course Number: 1390
Time: 285 Minutes
Number of Quizzes: 1 Quiz

Part of working with data in SQL Server 2005 is using statements to modify and manage data. An addition to statements are WHERE clauses that narrow the scope of the data. Learn how to write good where clauses as you study SARG, optimizer, and query plans. In addition to those discussions, you will also learn about filtering options with comparison operators, logical operators, pattern matching, and range of values. You will also go over ways to utilize scalar functions specifically data/time functions and metadata; and how to handle missing values or Null values. Explore the various commands and techniques that can be implemented to work with data in SQL Server 2005.

Filtering with Comparison Operators      1390_001
Filtering with Logical Operators        1390_002
Filtering with Range of Values          1390_003
Filtering with Pattern Matching         1390_004
Writing Good WHERE Clauses              1390_005
Handling Missing Values                 1390_006
Scalar Functions                        1390_007

Result Sets, Variables, Control of Flow, CASE and Ranking Functions, Grouping, Summarizing and Retrieving Data in SQL Server 2005
Course Number: 1391
Time: 360 Minutes
Number of Quizzes: 1 Quiz

In SQL Server 2005, there are a number of ways to view and arrange data using commands, variables, and functions. Study how to use each of these. One of the ways you can view data is in result sets where you can sort data and eliminate duplicates. Looking at variables, you will learn how to use local and scalar variables, EXEC command, and value in SELECT. Some of the functions you will see executed are CASE and ranking functions and aggregate functions. You will also see the role of functions such as GROUP BY, HAVING, and PIVOT in grouping and summarizing data. And then the remainder of this course is spent instructing you on how to retrieve data with inner, outer, and cross joins. All of these topics are essential to learning how to use SQL Server 2005 for database purposes.

Result Sets                                1391_001
Using Variables                           1391_002
Control of Flow                           1391_003
CASE and Ranking Functions                1391_004
Aggregate Functions                       1391_005
Grouping and Summarizing Data             1391_006
Advanced Grouping and Summarizing         1391_007
Retrieving Data with INNER JOINS          1391_008
Retrieving Data with OUTER/CROSS JOINS    1391_009

Combining and Limiting Result Sets, Subqueries, Common Table Expressions and Modifying Data in SQL Server 2005
Course Number: 1392
Time: 360 Minutes

Look at data modification commands, tasks associated with subqueries and CTEs, and result sets. In the data modification commands section, you will go over insert, select into, delete, and update commands. The information contained on subqueries and common table expressions covers how to use a subquery and correlated subquery, transversing hierarchies, how to use non-recursive CTEs, and the implementation of the exists and not exists function. And then for the discussion on result sets, you will focus on unions, and using commands like TOPn, INTERSECT, and TABLESAMPLE. This training takes
a closer look at additional ways that you can modify and manage data in SQL Server 2005.

Combining and Limiting Result Sets .......... 1392_001
Basic Subqueries ................................... 1392_002
Correlated Subqueries .............................. 1392_003
Common Table Expressions ...................... 1392_004
Recursive (Queries) CTEs ......................... 1392_005
Modifying Data with INSERT ..................... 1392_006
Modifying Data with SELECT INTO .............. 1392_007
Modifying Data with DELETE ..................... 1392_008
Modifying Data with UPDATE ..................... 1392_009

**OUTPUT Clause, Full-Text Indexes, XML, Views, Functions, Stored Procedures and Advanced Query Techniques in SQL**

Course Number: 1393
Time: 315 Minutes
Number of Quizzes: 2 Quizzes

SQL Server 2005 helps you manage your data. Gain a deeper understanding of how to query full-text indexes, use XML, program objects for data retrieval, execute stored procedures, and implement advanced query techniques. In the implementing advanced query techniques section, you will go over the convey command and heterogeneous queries. Other topics covered include OUTPUT clause, as well as user defined, inline, and multi-statement functions. For the discussions on OUTPUT clause, you are provided with details on OUTPUT and INSERTED clauses, outputting to tables, and DELETED clauses.

OUTPUT Clause .................................... 1393_001
Querying Full-Text Indexes ...................... 1393_002
Using XML ........................................ 1393_003
Programming Objects for Data Retrieval .... 1393_004
User Defined Functions ......................... 1393_005
Inline and Multi-Statement Functions ......... 1393_006
Stored Procedures ............................... 1393_007
Advanced Query Techniques .................... 1393_008

**Databases, Filegroups, Schemas, Database Snapshots and Basic SQL Server Data Types in SQL Server 2005**

Course Number: 1394
Time: 285 Minutes
Number of Quizzes: 1 Quiz

Focus on databases as you learn how to create databases, place database files, find database information, and take database snapshots. As an introduction to databases, you are provided with details on the basics of databases, how to install them, database objects, the process of creating a database, space estimation, log size and recovery, and database considerations. The place database files discussions concentrate on storage options in terms of RAID. You will also learn about schemas, filegroups, and SQL server data types. At the end of the SQL server data types section, you will have a deeper understanding of CREATE TABLE syntax, Global Identifier, date formats, character data types, and special data types. Train in database basics while increasing your knowledge and skills in SQL Server 2005.

Creating Databases .............................. 1394_001
Placing Database Files ......................... 1394_002
Using Filegroups ................................. 1394_003
Finding Database Information ................. 1394_004
Schemas ......................................... 1394_005
Database Snapshots .............................. 1394_006
Basic SQL Server Data Types ................. 1394_007

**User-Defined Data Types, Tables, XML and Indexing Concepts in SQL Server 2005**

Course Number: 1395
Time: 240 Minutes
Number of Quizzes: 1 Quiz

The four topics covered in this training include datatypes, tables, XML, and indexing concepts, which discusses the impact of indexing, the difference between table scan and index seek, and ways to choose how data is accessed. You will specifically look at user-defined data types as in alias data types, and study .NET assemblies. For tables, you will concentrate on the creation and partitioning processes. And then from the XML discussions, you will learn how to select for XML, use RAW mode and XML Explicit, the steps to shredding XML, XML data type, different methods, and how to insert a statement. All in all, these topics will further open up SQL Server 2005 to you and instruct you in how to work with data.

User-Defined Data Types ....................... 1395_001
Creating Tables ................................. 1395_002
Partitioning Tables ............................. 1395_003
Using XML ...................................... 1395_004
Shredding XML .................................. 1395_005
Indexing Concepts .............................. 1395_006
Indexes, Data Integrity, PK, Unique Constraints and Foreign Key Constraints in SQL Server 2005

Course Number: 1396
Time: 315 Minutes

Think of this training in two parts: indexing and security. In terms of indexing, you will find discussions on index structures, how to create an index, XML indexes, and index fragmentation. In the index structures section, you’ll find descriptions of index tables, sysindexes table, types of indexes, and users for non-clustered indexes. The security portion covers data integrity and data integrity implementation, PK and unique constraints, and foreign key constraints. In the data integrity sections, you will learn about the different data integrity types, how to enforce data integrity, how to use check constraints, alter table failures, and defaults. SQL Server 2005 plays a role in creating database objects through indexes and constraints. So in increasing your understanding of SQL Server 2005, it’s important to thoroughly know these topics.

Index Structures .................................. 1396_001
Creating Indexes.................................. 1396_002
Index Fragmentation.............................. 1396_003
XML Indexes...................................... 1396_004
Data Integrity ..................................... 1396_005
Data Integrity Implementation............... 1396_006
PK and Unique Constraints..................... 1396_007
Foreign Key Constraints........................ 1396_008

Triggers, XML Schemas, Views and Stored Procedures in SQL Server 2005

Course Number: 1397
Time: 240 Minutes
Number of Quizzes: 1 Quiz

Learn how to manage XML data using XML schemas, how to implement stored procedures, how to implement triggers for database objects, and about views. The XML schema section will teach you the characteristics of XML schemas, schema options, system views, schema collections, and validating documents. In the discussion on triggers, you will specifically study the definition, types, characteristics, and functions of after triggers, special triggers, and instead of triggers. For stored procedures, you will get into the characteristics of stored procedures, how to create and run stored procedures, the purpose of late binding, specifying passing parameters and creating output parameters, and the steps involved in testing output parameters. Explore the role of each of these topics in working with SQL Server 2005 database objects.

User-Defined Functions, Handling Errors, Execution Context, Managed Code and Service Broker in SQL Server 2005

Course Number: 1398
Time: 195 Minutes

Take a closer look at user-defined functions as you study the definition of functions, schema binding, determinism, and various function types particularly scalar, table-valued, calling table-valued, inline, and multi-statement functions. Other topics covered include handling errors, execution context, managed code, and the Service Broker concentrating on its characteristics, setup processes, processing messaging, and how to add messages to queues. In the execution context section, you will learn about the execution context, execute as, problems with cross-database chaining, controlling cross-database chaining, and limitations of cross-database chaining. There is a lot of details surrounding working with SQL Server 2005. The topics covered in this training will help you build little by little your understanding of SQL Server 2005.

User-Defined Functions........................... 1398_001
Handling Errors.................................. 1398_002
Controlling Execution Context............... 1398_003
Implementing Managed Code............... 1398_004
Service Broker................................. 1398_005

Installation, Post Install Configuration, Databases, Filegroups and Schemas in SQL Server 2005

Course Number: 1399
Time: 315 Minutes

Delve into installation, post-installation configuration, and database creation. The details encompassed in the installation process cover the installation requirements, server licensing, how to implement an unattended setup, how to conduct a system configuration check, the server components and collation settings, and the process of setting up a service account. From there, you will go into explanations on how to find database information using the Object Explorer, Summary Filtering, and Transact-
Managing Databases, Disaster Recovery, Backup and Restoring in SQL Server 2005
Course Number: 1400  
Time: 240 Minutes

Once you have your database setup, you then can begin managing it by growing database files, setting database options, and shrinking the database. After learning these database management techniques, shift your attention to recovery and backup as you concentrate on disaster recovery planning, full backups, file and filegroup backups, and restoration concepts. The restoration concepts explored include the different between restore and recovery, restore types, the restore process, the restore commands, restoring syntax, how to run a recovery, the steps to restore from differential, and how to conduct a piecemeal recovery. When implementing SQL Server 2005, it is essential that you have a plan for recovering your data and configurations if ever there was a disaster or some other event that caused for them to be lost.

Managing Databases ......................... 1400_001  
Disaster Recovery Planning ................... 1400_002  
Full Backup .................................... 1400_003  
File/Filegroup Backup .......................... 1400_004  
Restoring ....................................... 1400_005  
Restoring Databases ............................ 1400_006

Snapshots, Security, Keys, Certificates and Monitoring in SQL Server 2005
Course Number: 1401  
Time: 195 Minutes

A crucial component to executing server recovery are snapshots. Find out what snapshots are, how to use them, and the process of snapshot recovery. After discussing snapshots, you’ll transition to security on SQL Server 2005. The security topics focused on are how to secure the database, manage keys and certificates, and monitor the SQL Server. In the securing the database section, you will go over three security steps, adding users, database roles, the application role, and how to create a role. For the monitoring SQL server, you will be taught the admin to-do list, you will look through profiles, and you will observe demonstrations on monitoring memory, processor, and hard disk input and output. Learn the ins and outs of recovering and securing SQL Server 2005.

Database Snapshots ......................... 1401_001  
SQL 2005 Security .............................. 1401_002  
Securing the Database ......................... 1401_003  
Managing Keys and Certificates .............. 1401_004  
Monitoring SQL Server ....................... 1401_005

DDL Triggers, Event Notifications, Transferring Data, Jobs, Operators, Security and Alerts in SQL Server 2005
Course Number: 1402  
Time: 165 Minutes

Go through an assortment of topics to deepen your understanding of SQL Server 2005. Start out learning about DDL triggers and event notifications, which incorporates details on the event data function and event notification. The next topic is transferring data, where you’ll study relocating and transforming data, data flow, SSIS, DTS package, and package configurations. Following that discussion are explanations of jobs, operators, security, and alerts. In the jobs, operators, and security section, you will concentrate on the SQL Server Agent, schedules and notifications, credentials, and the way security is implemented in MSDB.

DDL Triggers and Event Notifications .......... 1402_001  
Transferring Data .............................. 1402_002  
Jobs, Operators, and Security ................. 1402_003  
Alerts ............................................ 1402_004

High Availability, Database Mirroring and Replication in SQL Server 2005
Course Number: 1403  
Time: 165 Minutes  
Number of Quizzes: 1 Quiz

Study replication, database mirroring, and high availability through failover clustering. For the database mirroring discussion, you will cover mode benefits and
setup, mirroring steps, log shipping, and switching roles. In the replication section, you will get an overview of replication, learn about publications and articles, and explore replication types. SQL Server 2005 offers you a solution to manage data and make it accessible for your environment. Ensure that you understand the entire range of SQL Server 2005’s capabilities to make data management more efficient.

High Availability ........................................ 1403_001
Database Mirroring ........................................ 1403_002
Replication ................................................... 1403_003
Replication Types ........................................ 1403_004

**SQL Server 2005**

**Database Server Infrastructure (70-443) Series**

**Capacity Planning, Hardware and Software, Storage, Multiple Instances, Consolidation and Security Requirements in SQL Server 2005**

Course Number: 1404  
Time: 225 Minutes  
Number of Quizzes: 1 Quiz

You’ll spend the majority of your time studying how to design a database infrastructure. Information on this subject is broken down into a few sections. The first is the capacity planning section. This section focuses on the design process, inventory, storage planning, growth rate, privacy, and compound and geometric growth. Next you’ll go over storage configuration, and hardware and software options. You’ll also get into how to design multiple instances and how to consolidate databases. The last part of this course introduces you to security on SQL Server 2005 as you look at server requirements like least privilege, common criteria, C2 security, authentication systems, clustering, log shipping, mirroring, and replication. All in all, these topics will aid in deepening your understanding of how to work with SQL Server 2005 and design a database on it.

Capacity Planning ................................. 1404_001
Additional Capacity Planning ................. 1404_002
Hardware and Software Options ............... 1404_003
Designing Storage .............................. 1404_004
Multiple Instances ............................. 1404_005
Database Consolidation ......................... 1404_006
Security Requirements .......................... 1404_007

**Security, Normalization, Tables, File Groups, Indexes, Views, Naming Conventions and Change Control in SQL Server 2005**

Course Number: 1405  
Time: 195 Minutes  
Number of Quizzes: 2 Quizzes

Concentrating on security for the database, you’ll start with server-level, service-level, database-level, and object-level security. Spend time learning about how to address performance and business needs; as well as work with tables, file groups, indexes, and views. In the performance and business needs section, you will learn about database normalization, redundancy, entities, relationships, denormalization, and the different types of normal forms. Then you’ll wrap up the course by covering naming conventions and change control, where you’ll concentrate on object-naming conventions, tables and columns, SPs, synonyms, coding standards, change control, and deployment. Gain all of the skills, knowledge, and tools you need to successfully design a database using SQL Server 2005.

Server-Level Security .............................. 1405_001
Service-Level Security ............................. 1405_002
Database-Level Security ........................... 1405_003
Object-Level Security .............................. 1405_004
Performance and Business Needs .............. 1405_005
Tables, File Groups, Indexes, and Views...... 1405_006
Naming Conventions and Change Control... 1405_007

**High Availability, Clustering, Mirroring, Replication, Data Recovery, and Archiving Data in SQL Server 2005**

Course Number: 1406  
Time: 255 Minutes  
Number of Quizzes: 2 Quizzes

You’ll touch on three areas in this training - designing a database solution for high availability, data recovery solutions, and a strategy for archiving data. High availability includes discussions on high availability needs, high availability storage solutions, clustering solutions, mirroring, and replication. Through the data recovery section, you will gain an understanding of the planning process and how to create a recovery plan, the steps to restoring corrupted pages, and how to conduct a piecemeal restore. Lastly the archiving data section covers archive process considerations, choosing archive media, accessibility and reliability, choosing a data structure, ways to ensure security, storage types, and data archiving...
You have experience working with Microsoft SQL Server 2005, and now you’re pursuing certification as a database administrator. The former 70-444 exam requires that candidates have an understanding of how to automate databases, create a database maintenance plan, work with SQL Server Integration Services, replicate, and create SSIS packages. Along with these topics, you will also learn about creating a SQL Job Agent, how to document an environment, and the functionality of Reporting Services. In the Reporting Services section, you will look at the Configuration Manager, the best practices to automating, how to manage report services databases, the steps to connecting to Reporting Services, how to create reports, and the options for viewing report Web sites. Take time to study these topics to learn more about using Microsoft SQL Server 2005.

Automating Databases .......................... 1407_001
Creating a SQL Agent Job......................... 1407_002
Database Maintenance Plans ................. 1407_003
Creating a Database Maintenance Plan .... 1407_004
Documenting the Environment ............... 1407_005
SQL Server Integration Services .......... 1407_006
Creating SSIS Packages ....................... 1407_007
Replication ...................................... 1407_008
Reporting Services ............................. 1407_009

To maintain SQL server, monitorization is important to ensure that all baselines are being met. Study performance, system, and activity monitoring. For system monitoring, you will explore adding counters, working with counter averages and logs, using the Profiler, and evaluating the memory, network interface, the process, and SQL server objects. As you’re learning about these monitorization activities, you are bound to come across issues. To help with your monitorization process, you will find explanations on the best practices for using Performance Monitor and the Profiler, for comparing test results, and for choosing a monitoring tool. This training will instruct you on how to address object performance issues caused by bottlenecks. All in all, the topics discussed will help you learn how to better maintain SQL Server 2005 and teach you concepts from the former 70-444 exam.

Performance Monitoring Tools .................. 1408_001
System Monitor .................................. 1408_002
Activity Monitor ................................. 1408_003
Working with Profiler ......................... 1408_004
Best Practices ................................. 1408_005
Object Performance Issues .................. 1408_006
Using Profiler with System Monitor .......... 1408_007
Choosing What to Monitor ...................... 1408_008

Go through optimization, monitorization, and troubleshooting concepts for SQL Server 2005. The optimization section describes how to execute query optimization using a query execution plan, database options, the circular process, the steps to implementing a solution, and the optimization model. In the troubleshooting sections, you will find demonstrations addressing connectivity issues, data issues, and concurrency issues. There is also a section focused on the Database Engine Tuning Advisor, where you will learn its purpose, how to initiate it, and how to analyze queries. These discussions will aid in equipping you to work with Microsoft’s SQL Server 2005.

Query Optimization .......................... 1409_001
High Availability and Linked Servers in SQL Server 2005

Course Number: 1410  
Time: 195 Minutes  
Number of Quizzes: 2 Quizzes

In the discussions on high availability, first, you will learn about high availability solutions as in high availability technologies, failover clustering, log shipping, database mirroring, and transactional replication. You will also spend some time considering the options available when mixing high availability solutions such as adding log shipping with database mirroring. Next, you will look at the requirements of and the process of implementing high availability. The last section dedicated to high availability evaluates its weaknesses based on a solution. The other topic emphasized in this training are linked servers. In this section, you will find explanations on the purpose and function of linked servers, and how to create and test the connection between linked servers. Increasing high availability and linking servers are two ways of optimizing an SQL server, so they are important topics to aid in understanding server optimization and maintenance.

High Availability Solutions ...................... 1410_001  
Implementing High Availability .................. 1410_002  
High Availability Requirements ............... 1410_003  
High Availability Weaknesses ................. 1410_004  
Mixing High Availability Solutions .......... 1410_005  
Linked Servers .................................... 1410_006

Windows 7

Windows 7 Configuration (70-680) Series

Installation and Deployment of Windows 7

Course Number: 795  
Time: 195 Minutes  
Number of Quizzes: 2 Quizzes

Go through detailed explanations on Windows 7 installation, including a review of the components and roles involved in deploying Windows 7. You will start out with an introduction to the 70-680 exam, which identifies the objectives and requirements, as well as informs you about some Windows 7 basics. There are different ways to conduct an installation for instance as a clean install, an upgrade, or as a migration. Learn the details and procedures behind each of these options along with all how to prepare the network for installation. Then looking at the deployment process, you will concentrate on an image-based deployment where you can capture system images, manipulate images, and utilize advanced imaging techniques like the WinSIM tool and VHD. Focus on the administrative responsibilities encompassed within installing and deploying Windows 7 to a network.

Introduction ........................................ 795_001  
Installation Methods .......................... 795_002  
Upgrade Methods ............................... 795_003  
Clean Installation Planning .................... 795_004  
Performing a Clean Install ..................... 795_005  
Migrating Windows .............................. 795_006  
Image-Based Deployment ...................... 795_007  
Capturing System Images ...................... 795_008  
Manipulating Images ........................... 795_009  
Advanced Imaging Techniques ............... 795_010

Device Drivers, IE8, Application Compatibility & Restrictions in Windows 7

Course Number: 796  
Time: 105 Minutes  
Number of Quizzes: 1 Quiz

Prepare yourself for the Windows 7 Configuration (70-680) certification exam with detailed and effective training. You will look at the system requirements for Windows 7, the new features of Internet Explorer 8, and the different device drivers used in Windows 7. In the section on device drivers, you will look at how to update them using the Device Manager, the steps to disabling or uninstalling drivers, obtaining the driver certificate, and advanced driver options. You will also study application compatibility and restrictions in terms of how to work inside the Compatibility Wizard and use the AppLocker.

Working with Device Drivers .................... 796_001  
Hardware Compatibility ....................... 796_002  
Internet Explorer 8 ............................. 796_003  
Understanding Application Compatibility .... 796_004  
Using Application Restrictions .............. 796_005
Networking in Windows 7
Course Number: 797
Time: 75 Minutes
Number of Quizzes: 1 Quiz

Look at the different connections, ports, and switches involved with networking in a Windows 7 environment. You learn all that you need to know about networking in Windows 7. Understand IPv4 and IPv6 by studying subnet masks, default gateways, public vs. private addressing, device naming, and the IPv6 address types. There is also time set aside to discuss configuring IP protocols through network connection properties, Net Shell, and the Command Prompt. Thoroughly understanding these topics will help you in your preparation for the 70-680 exam.

Security in Windows 7
Course Number: 798
Time: 255 Minutes
Number of Quizzes: 3 Quizzes

When it comes to system administration and maintenance, security is a big concern. Walk through the processes involved in securing your network through encryption and authentication. Other Windows 7 topics discussed are Remote System Management, how to update Windows 7, monitor system performance and events, manage storage, and share resources. In focusing on Remote System Management, you will study Remote Assistance, WinRM, WinRS, and Remote PowerShell. Also important to the discussion on Remote System Management is Remote Connectivity, which includes instructions on creating a VPN connection, enabling VPN reconnect, and creating a dial-up connection. There are a number of topics included in this course that will aid in your preparation for Microsoft’s 70-680 exam.

Mobility Options, File Management & Recovery in Windows 7
Course Number: 799
Time: 90 Minutes
Number of Quizzes: 1 Quiz

Prepare for your 70-680 certification exam by deepening your understanding of the Windows 7 system. With Windows 7, mobility, file management, and system recovery are no problem. In the mobility section, you will find details to help you understand BranchCache, configure mobility options to access files offline, and migrate power configurations. Walk through step-by-step instructions on file management through shadow copies, scheduling restore points, and restoring from previous file version, and look at automated backup configurations.

Windows 7 Deployment & Software Configuration
Course Number: 800
Time: 135 Minutes
Number of Quizzes: 1 Quiz

Learn everything involved in supporting Windows 7 clients in the enterprise environment. You will be introduced to how Windows 7 is implemented on the desktop, and explore the software configurations that are available. There’s also an exam based on Windows 7 that assesses your knowledge; it’s Microsoft’s 70-685 exam. You will find an overview of this exam and begin exploring the troubleshooting process. In deploying Windows, it is best to have a deployment plan that includes solutions of troubleshooting deployment. In the image deployment process, you will look at application imaging for installation. After successful deployment, you can begin configuring various settings as in the software configuration settings.

Recovery in Windows 7
Course Number: 799
Time: 90 Minutes
Number of Quizzes: 1 Quiz

Learn everything involved in supporting Windows 7 clients in the enterprise environment. You will be introduced to how Windows 7 is implemented on the desktop, and explore the software configurations that are available. There’s also an exam based on Windows 7 that assesses your knowledge; it’s Microsoft’s 70-685 exam. You will find an overview of this exam and begin exploring the troubleshooting process. In deploying Windows, it is best to have a deployment plan that includes solutions of troubleshooting deployment. In the image deployment process, you will look at application imaging for installation. After successful deployment, you can begin configuring various settings as in the software configuration settings.

Microsoft's 70-680 exam. Included in this course that will aid in your preparation for a dial-up connection. There are a number of topics discussed, including instructions on creating a VPN connection, enabling VPN reconnect, and creating a dial-up connection. Thoroughly understanding these topics will help you in your preparation for the 70-680 exam.
Windows 7 Troubleshooting

Course Number: 801
Time: 135 Minutes
Number of Quizzes: 2 Quizzes

You are provided with the knowledge you need to pass your Windows 7 Enterprise Desktop Support (70-685) exam. This course specifically provides different tips, tricks, and techniques for troubleshooting app problems, logon problems, and network issues. In focusing on troubleshooting, you will learn about basic and more advanced troubleshooting techniques involving Traceroute, Pathping, netsh, and the Network and Sharing Center. There is also time dedicated to device name resolution and network printing through a Windows 7 network printer. The topics covered in device name resolution include Nslookup, primary DNS suffix, DNS cache, and DNS registration.

Troubleshooting Application Problems......... 801_001
Repairing Network Applications............... 801_002
Basic Network Troubleshooting............... 801_003
Advanced Network Troubleshooting .......... 801_004
Logon Problems .................................. 801_005
Device Name Resolution ......................... 801_006
Network Printer .................................. 801_007

System Performance & Storage in Windows 7

Course Number: 802
Time: 105 Minutes
Number of Quizzes: 1 Quiz

Look at system performance and network storage. The system performance section covers details on the performance principles, the tuning process and tools, performance tips, as well as an overview of the popular performance analysis tools used, which include log analysis, disk cleanup, virtual memory, and Power Management. Branching from the system performance is the discussion on hardware troubleshooting tools involving chkdsk, chkfnats, Device Manager, and Disk Defragmenter. You will also find details on data collector sets particularly on the role of a DCS and the processes involved in creating and configuring a DCS. The final topic presented on is memory failures, memory diagnostics, BIOS issues, and BIOS downloads. Train in all these topics to prepare for the 70-685 exam.

System Performance......................... 802_001
Performance Analysis Tools................. 802_002
Data Collector Sets......................... 802_003
Hardware Troubleshooting Tools .......... 802_004
Memory and BIOS Errors..................... 802_005

Wireless Connections & Security Settings in Windows 7

Course Number: 803
Time: 150 Minutes
Number of Quizzes: 3 Quizzes

To prepare for Microsoft’s 70-685 exam, you must know how to analyze an environment and troubleshoot its wireless and Remote Access components. As an administrator, you should also know how to adjust or increase security settings and configurations for Internet Explorer and Windows 7. In the discussion on adjust security settings, you will also find details on encryption solutions as in key encryption factors, exporting EFS certificates, and working in the BitLocker. There is also time spent studying Windows Updates where you will look at the different between automatic and manual updates, can see how to scan the update history, and learn how to remove updates and unhide updates.

Wireless Fundamentals ......................... 803_001
Troubleshooting Wireless Connections....... 803_002
Troubleshooting Remote Access............. 803_003
Supporting Remote Users ..................... 803_004
Windows 7 Security ......................... 803_005
IE Security Settings ......................... 803_006
Encryption Solutions ......................... 803_007
Windows Updates ......................... 803_008

Windows Vista

Windows Vista and Office 2007 Deployment (70-624) Series
Introduction, Deployment, Migrations, OMPM Tool, & Settings in Office 2007

Course Number: 982
Time: 210 Minutes
Number of Quizzes: 1 Quiz

You will gain an understanding of the process of a good enterprise deployment plan. As an introductory course, there are descriptions of the new features; presentations of the system’s interface, for instance the OMPM tool; and demonstrations of the steps to implementing a deployment of Office 2007 for a system including how to conduct office migrations and establish office settings.

Intro to Office 2007......................... 982_001
Deployment of Office 2007.................. 982_002
Installing ACT, Data Collection Packages, Compatibility, & User State Migration in Windows Vista
Course Number: 983
Time: 240 Minutes
Number of Quizzes: 2 Quizzes

You will learn about the tools and technology built into the Vista solution to help you plan, analyze, and migrating your applications. Migrating applications equates to user state migration, and this course describes the limitations of this type of migration, and identify the tools used to achieve this type of migration. You will concentrate on the ACT feature, the role of data collection packages, and compatibility reporting and resolutions. In describing compatibility reporting, you will also look at prioritizing data, analyzing data output, and applying assessment ratings.

Vista Application Planning ....................... 983_001
Installing ACT ...................................... 983_002
Data Collection Packages ........................ 983_003
Compatibility Reporting ............................ 983_004
Resolving Compatibility Issues ................... 983_005
User State Migration ............................... 983_006
User State Migration Tool .......................... 983_007

Deployment, Preinstallation, Customizing, Imaging, & Automated Installations in Windows Vista
Course Number: 984
Time: 210 Minutes
Number of Quizzes: 1 Quiz

You will cover the details involved with the preinstallation process for Windows Vista. In looking over the preinstallation process, you will look at the challenges, best practices, deployment models, and environment needed. Some key features and tools covered are Windows PE Image, a tool used in imaging solutions, SysPrep tool associated with configuring automated installations, and System Image Manager also connected to imaging solutions.

Preparation for Vista Deployment .................. 984_001
Preinstallation Environment 2.0 ..................... 984_002
Customizing Windows PE ......................... 984_003
Imaging Solutions .................................. 984_004
Imaging Manipulation ............................... 984_005
Configure Automated Installations ............... 984_006

Windows Vista Configuration (70-620) Series

Installation, Upgrading, Migration, Post-Installation and Third Party Applications in Windows Vista
Course Number: 1447
Time: 165 Minutes
Number of Quizzes: 1 Quiz

Familiarize yourself with Windows Vista as you explore changes to the interface, how to configure Vista, prerequisite knowledge, Vista versions, requirements, and how to get started using Windows Vista. To get started, you need to install it. And there are a number of different installation options. You could perform a clean install, an image installation, an upgrade, or a migration. After installation, you have post-installation options that need configuring for drivers, device icons, display settings, Aero configuration, desktop personalization, and Aero troubleshooting. Wrap up your training by looking at third party applications to study program compatibility, general program issues, and the Performance Index. Learn the ins and outs of Windows Vista.

Vista Overview ...................................... 1447_001
Installing Vista ...................................... 1447_002
Upgrade and Migration Options ................... 1447_003
Post-Installation Options ............................ 1447_004
Third Party Applications ............................ 1447_005

BDD 2007, LTI, ZTI, & SMS 2003 in Windows Vista
Course Number: 985
Time: 210 Minutes
Number of Quizzes: 2 Quizzes

Walk through the deployment process of Windows Vista by working with Business Desktop Deployment 2007, Lite Touch Deployment, Zero Touch Deployment, and SMS 2003 for Vista Deployment. When you complete this training, you will have gained the knowledge of the proper process to ensure you are able to be proactive in your deployments.

Business Desktop Deployment 2007 ............ 985_001
Installing BDD ....................................... 985_002
Using BDD ........................................... 985_003
Lite Touch Deployment .............................. 985_004
Zero Touch Deployment ............................ 985_005
SMS 2003 for Vista Deployment .................. 985_006
User Account Control, IE,
Windows Defender, Windows
Firewall, Parental Controls and
Windows Update in Windows Vista
Course Number: 1448
Time: 225 Minutes
Number of Quizzes: 2 Quizzes

You’ll cover a range of security and wireless areas including controls, Internet Explorer, malware and spyware, and Windows firewall. The controls area focuses on User Account Control, where you’ll learn how to create a standard user, elevate a standard account, run applications, and configure user settings, and restrictions and Parental Controls. In the Internet Explorer section, you will go over RSS Feeds, page options, IE configuration, add-ons, and Internet Explorer security. Another topic covered is how to use Windows Update, which explains Windows Update, update settings, and how to look at the update history. Gain all the skills, concepts, and tools you need to work in Windows Vista.

User Account Control................. 1448_001
Internet Explorer ....................... 1448_002
IE Security Features .................. 1448_003
Malware and Spyware ................. 1448_004
Windows Firewall Configuration ...... 1448_005
Restrictions and Parental Controls ... 1448_006
Using Windows Update............... 1448_007

Networking, Wireless,
Remote Access, Media,
Productivity Applications and
Collaboration in Windows Vista
Course Number: 1449
Time: 195 Minutes
Number of Quizzes: 2 Quizzes

In the networking section, you will work in the Network and Sharing Center, go over the network map and connections, look at sharing and discovery, and learn about network resources. Building on the networking discussions, you will get into wireless networking, profile types, and connecting to and managing a wireless network. Having covered those foundational topics, you will begin studying Remote Access by going over Remote Desktop, the steps to configuring Remote Access, different Access options, Remote Assistance, and request control. The peer-to-peer collaboration section looks at the Windows meeting space, how to create a meeting, and the ways to work with and troubleshoot a meeting space. Other topics covered include media applications and productivity applications. These topics will aid in deepening your understanding of how to work with Windows Vista.

Networking........................................ 1449_001
Wireless........................................ 1449_002
Remote Access.............................. 1449_003
Media Applications........................ 1449_004
Productivity Applications............... 1449_005
Peer-to-Peer Collaboration.............. 1449_006

Mobile Devices and Computing,
Optimization, Monitoring
Performance, Data Protection and
Recovery Tools in Windows Vista
Course Number: 1450
Time: 195 Minutes
Number of Quizzes: 1 Quiz

Explore how Windows Vista functions on mobile devices and mobile computing as you learn how to synchronize devices, use Windows SideShow and the Sync Center, configure Vista mobility settings, and set power options. From there, you’ll look at performance optimization, performance monitorization, data protection, and Vista recovery tools. The later topic focuses on system recovery, system restore, bootable tools, and the memory diagnostics tool. The data protection section covers system protection, configuring restore points, protect data and restore, the Backup and Restore Center, and Windows PC backup. All in all, these topics will help you to more efficiently work with Windows Vista on any mobile platform.

Mobile Devices .......................... 1450_001
Mobile Computing ....................... 1450_002
Performance Optimization ............ 1450_003
Monitoring Performance ............... 1450_004
Data Protection ......................... 1450_005
Vista Recovery Tools .................... 1450_006
Windows Vista Enterprise Support (70-622) Series

Deployment, Installation, Post Installation Tasks and Troubleshooting Installation in Enterprise Windows Vista

Course Number: 1221
Time: 225 Minutes
Number of Quizzes: 1 Quiz

Deepen your foundational understanding of deploying Windows Vista, managing it, and troubleshooting network-related issues. Start your training by looking at the prerequisites and topics of the 70-622 exam, distinguishing between the Vista editions, and becoming acquainted with Vista’s new features. You will learn how to analyze business environments as you determine whether deployment is more appropriate than a deployment, go through instruction on the pre-installation steps, and observe how to create and prepare images for deployment. There is also a section dedicated to post installation tasks like migrations, upgrades, and troubleshooting. As a whole, these topics will aid you in your preparation to sit for the Microsoft 70-622 exam.

Windows Vista Client ......................... 1221_001
Analyze Business Environments .......... 1221_002
Preparing for Installation ............... 1221_003
Custom Image Tools ....................... 1221_004
Creating Custom Images ................. 1221_005
Post Installation Tasks ................. 1221_006
Troubleshooting Installations .......... 1221_007

Network Protocols and Services, Wireless Connections, Remote Desktop and Application Deployment in Enterprise Windows Vista

Course Number: 1222
Time: 225 Minutes
Number of Quizzes: 2 Quizzes

Part of your training is dedicated to wireless and networking concepts like network protocol configuration, network services, wireless connections, and remote access. In the Network Protocol Configuration section, you will learn about IP, DHCP, and static IP configuration. With this understanding of network protocols, you can then study network services, which is closely related to those protocols. Other topics covered include task scheduling, group policies, and application deployment. Going through discussions on application deployment will teach about the different distribution options, distribution setup options, software properties, software restriction policy, and how to troubleshoot restrictions. Gain an understanding of these topics in order to prepare for Microsoft’s 70-622 exam.

Network Protocol Configuration .......... 1222_001
Network Services ......................... 1222_002
Wireless Connections .................... 1222_003
Remote Access ......................... 1222_004
Task Scheduling ......................... 1222_005
Group Policies ......................... 1222_006
Application Deployment ................. 1222_007


Course Number: 1223
Time: 225 Minutes
Number of Quizzes: 1 Quiz

To understand how to manage and maintain Windows Vista, you need to know how to work with User Account Control, firewalls, and Windows Defender. In the User Account Control section, you will go over the basics of UAC, the difference between standard and admin, the elevation color code, how to activate UAC, and using UAC group policies. There are also other security concepts discussed in this course, particularly authentication, authorization, and Internet security. In the general discussion of security, you will go over IPSec, EFS, BitLocker, GPResult, security templates, and security configuration analysis. On the topic of Internet security, you will study IE protected mode, the phishing filter, pop-up blockers, the Add-on Manager, and security settings within Internet Explorer 7. These security topics are meant to help prepare you to sit for the 70-622 exam.

User Account Control ...................... 1223_001
Firewalls ........................................... 1223_002
Windows Defender ....................... 1223_003
Security .......................................... 1223_004
Authentication ......................... 1223_005
Authorization Processes .................. 1223_006
IE 7 Security .............................. 1223_007
Troubleshooting, Connectivity, Compatibility, Desktop Applications, Management Tools and Windows Updates in Enterprise Windows Vista
Course Number: 1224
Time: 225 Minutes
Number of Quizzes: 2 Quizzes

Take an in-depth look at troubleshooting tools for policies, Group Policy management, computer management, disk management, and services. Continue the discussion on troubleshooting as you learn about the issues associated with connectivity and compatibility. From there, you’ll direct your attention to desktop applications, maintenance features, the Event Manager, and patches and updates. In the maintenance features section, you will study management tools, the Task Manager, performance information tools, Performance Monitor, Reliability Monitor, disk defragmentation, and advanced system settings. Covering these troubleshooting and maintenance topics will help you in your preparation for the 70-622 exam.

Troubleshooting Tools.............................. 1224_001
Connectivity Issues .............................. 1224_002
Compatibility...................................... 1224_003
Desktop Applications .............................. 1224_004
Performance and Reliability..................... 1224_005
Logs and Events.................................... 1224_006
Patches and Updates.............................. 1224_007

Windows XP

Windows XP Pro (70-270) Series
Installation, Upgrading and Migrating User Settings in Windows XP
Course Number: 1451
Time: 225 Minutes
Number of Quizzes: 1 Quiz

Develop your skills in network administration and deepen your understanding of the Windows XP environment. The first thing you’ll study in the Windows XP environment is the minimum software and hardware requirements, ACPI BIOS, and the installation process. In the installation section, you will look at installation modifiers, partition scheme, GUI-mode installation, Dynamic Update, and product activation. Also there are different installation methods that can be conducted on your network based on the previous configurations. You can upgrade your system to Windows XP, conduct an unintended installation, or use Remote Installation Services. During Windows XP installation, you might encounter some installation or ACPI problems, or problems connected to hardware compatibility. This training will instruct you on how to resolve those issues. Become familiar with Windows XP as you go through these introductory topics.

Installing Windows XP.......................... 1451_001
Upgrading Windows XP.......................... 1451_002
Migrating User Settings.......................... 1451_003
Unattended Installation.......................... 1451_004
Remote Installation Services.................... 1451_005
Installation Troubleshooting.................... 1451_006

Users, Groups, Login and Policies in Windows XP
Course Number: 1452
Time: 195 Minutes
Number of Quizzes: 2 Quizzes

With this training, you’ll go through Windows XP security concepts. The foundation of Windows XP security is based on user accounts and group accounts. So you must know how to create and manage these accounts, how to distinguish between the different types, and how to use them to work with permissions. Building on that, one way to implement security is by setting up logins for users and user profiles. Another way to enforce security is through local security policy and Group Policy. In the local security policy section, you will take a look at different policy types, how to change policy settings, the way to assign user rights, how to configure security options, how to use the MMC, and how to work with security templates. All in all learning these topics will enable you to implement security in your Windows XP environment.

User Accounts................................. 1452_001
Groups............................................. 1452_002
Logging On to Windows XP.................... 1452_003
User Profiles................................. 1452_004
Local Security Policy......................... 1452_005
Group Policy................................. 1452_006

Auditing, Installer, User Interface, Hardware and Storage Devices in Windows XP
Course Number: 1453
Time: 270 Minutes
Number of Quizzes: 1 Quiz

Continuing the discussion of security in a Windows XP environment, you will go over auditing, where you’ll learn how to enable auditing, about tracking an object, about the auditing properties, and how to work in the Event Viewer.
Then you’ll concentrate on the desktop environment as you get into the user interface and interface options, and the Windows Installer. You’ll explore the start menu, My Computer, display properties, and the Control Panel. Gain an understanding of hardware elements with explanations on hardware installation, hardware support, mobile computer hardware, and storage devices. In the storage devices section, you will look at hard disk support, dynamic disk volumes, managing disks, using the New Volume Wizard, how to convert basic to dynamic, and removable storage. Learn the ins and outs of Windows XP administration.

**NTFS, EFS Recovery and Networking Setup in Windows XP**  
Course Number: 1454  
Time: 195 Minutes  
Number of Quizzes: 2 Quizzes

Focus on storage concepts and components as well as networking. The storage concepts and components highlighted include file systems, NTFS, and EFS recovery. The EFS recovery section emphasizes recovering encrypted data, using a recovery certificate, encrypting a file with an encryption password, the Data Recovery Agent, and removing an encryption policy. In the networking section, you will learn about networking setup particularly how to use Network Connections, how to configure network properties, TCP/IP configuration, and how to work with advanced properties. Strengthen your skills and deepen your knowledge of how to successfully administrate Windows XP.

**Troubleshooting, Sharing Resources, Offline Folders, Printing and Remote Connectivity in Windows XP**  
Course Number: 1455  
Time: 225 Minutes  
Number of Quizzes: 2 Quizzes

Cover network troubleshooting, which looks at connection repairs, the Run Net Config Redirector, advanced settings, steps to troubleshooting TCP/IP, and running PING, TRACERT, and NETSTAT. From there, you’ll explore sharing resources, offline folders, printers, and remote connectivity. The section on Shared Resources describes how to enable sharing, use the local security policy, share permissions, and set permissions. And then through the remote connectivity section, you will gain an understanding of dial-up networking, the dial-up connection and open connection, VPN, VPN connection properties, and configuring VPN Connection. With these topics you are increasing your understanding of the concepts, skills, and techniques needed by an administrator in a Windows XP environment.

**ICS, Web Services, Remote Desktop, System Performance, Backup and Recovery in Windows XP**  
Course Number: 1456  
Time: 195 Minutes  
Number of Quizzes: 1 Quiz

You will look at Web connectivity and the best practices for system monitorization and maintenance. In this training, the Web connectivity topic breaks down into discussions on Internet connection utilities like ICS and UPnP, Web services, and Remote Desktop. In the Remote Desktop section, you will come away with an understanding of its purpose, how to enable it, the connection settings, how to connect with the browser, and how to use Remote Assistance. The other topics covered on system monitorization and maintenance include looking at system performance, Windows backup, and disaster recovery. Each section provides you with details and demonstrations.
that will help you be more efficient in your management of a Windows XP environment.

Internet Connection Utilities .......................... 1456_001
Web Services ............................................. 1456_002
Remote Desktop .......................................... 1456_003
System Performance ...................................... 1456_004
Windows Backup ......................................... 1456_005
Disaster Recovery ........................................... 1456_006

Windows XP Professional (70-270)
(Consolidated)

Course Number: 7
Time: 780 Minutes
Number of Quizzes: 11 Quizzes

LearnSmart provides 16 hours of computer based video training for your Microsoft Windows XP Professional (70-270) certification exam along with supplemental learning materials to further your understanding of what it takes to become a network administrator. Computer consultant Aaron Spurlock, who specializes in Windows and NetWare, explores the best practices for deploying Windows XP Professional in a Windows 2000 environment.

Introduction ............................................ 7_001
Install Windows XP .................................... 7_002
Upgrading Windows XP ................................. 7_003
Migrating User Settings ............................... 7_004
Unattended Installation ............................... 7_005
Remote Installation Services ....................... 7_006
Installation Troubleshooting .......................... 7_007
User Accounts .......................................... 7_008
Group Accounts ........................................ 7_009
Log On to Windows ..................................... 7_010
User Profiles .......................................... 7_011
Local Security Policy ................................. 7_012
Group Policy ........................................... 7_013
Auditing .................................................. 7_014
Windows Installer ...................................... 7_015
User Interface .......................................... 7_016
Interface Options ..................................... 7_017
Hardware Installation ............................... 7_018
Hardware Support ..................................... 7_019
Mobile Computer Hardware ....................... 7_020
Storage Devices ....................................... 7_021
File Systems ........................................... 7_022
Simple NTFS ........................................... 7_023
NTFS .................................................................. 7_024
NTFS Features ........................................... 7_025
EFS Recovery ............................................ 7_026
Networking Setup ...................................... 7_027
Network Troubleshooting ............................ 7_028
Sharing Resources ..................................... 7_029
Monitoring Shared Resources .................... 7_030
Offline Folders ......................................... 7_031
Configuring Printers ................................. 7_032
Managing Printers ..................................... 7_033
Managing Printers: Remote Connectivity ....... 7_034
Internet Connection Utilities ...................... 7_035
Web Services ............................................ 7_036
Remote Desktop ....................................... 7_037
System Performance ................................... 7_038
Windows Backup ...................................... 7_039
Disaster Recovery ..................................... 7_040

.NET 2.0 Web Applications (70-528)

Static Pages, Validation, Error Handling, Localization
and Master Pages

Course Number: 1275
Time: 180 Minutes
Number of Quizzes: 1 Quiz

Getting started with Microsoft .NET Framework 2.0 — Web-based Client Development? Then learn how to set up an environment, create a Web site project, run a Web application, and add content. Part of creating and programming a Web application is adding in Web pages. Learn how to create pages, view them in the browser, add HTML and ASP controls, change behaviors, use event handlers, and work with the Ad Rotator XML file. When creating a Web page, you have to consider errors you may encounter, understand how you’ll address them, and know the tools used to address them. Alongside these topics, you will learn about localization and master pages. Retaining all the information covered in this course will help prepare you for Microsoft’s 70-528 exam.

Building Static Pages ................................. 1275_001
Validation and Error Handling .................... 1275_002
Localization ............................................. 1275_003
Master Pages ........................................... 1275_004
Begin training in developing Web-based applications using the .NET Framework. Study user controls and user profiles as you look at constituent controls, register statements, how to add functionality to controls, dynamically removing controls, the requirements for user profiles, and how to capture, retrieve, and save profiles. From there, you’ll transition to authentication and authorization topics covering the provider model, login controls, membership provider, create users, the purpose of the Role Manager, and generic principal. The remainder of the course focuses on site maps and dynamic master pages. Each topic falls into the category of creating custom Web controls, implementing authentication and authorization, or customizing Web applications. Thoroughly understanding each of these categories will aid you in your preparation for the 70-528 exam.

User Controls ........................................ 1276_001
User Profiles ...................................... 1276_002
Authentication .................................. 1276_003
Authorization .................................... 1276_004
Site Map ........................................... 1276_005
Dynamic Master Pages .......................... 1276_006

The focus of this course is on themes, controls, and data sources. In the themes section, you will learn about adding themes, working with style sheets, using the theme folder, and the purpose of skin files and skinID. For the controls discussion, you will look at data bound controls and templated controls. Topics covered in these discussions include the relationship between themes and templates, login controls, how to modify formatting, creating data lists, using the Data Repeater, and data binding. There are three types of data sources addressed: SQL data source, XML data source, and object data source. Overall, these topics will prepare you for the Microsoft .NET Framework 2.0 - Web-based Client Development 70-528 exam.

Themes .............................................. 1277_001
Templated Controls .............................. 1277_002
SQL Data Source .................................. 1277_003
Data Bound Controls .............................. 1277_004
XML Data Source .................................. 1277_005
Object Data Source ............................... 1277_006

Explore custom error pages, changing configuration, deployment features, IIS, and production deployment. The role of IIS is to associate with the .NET framework. Learn the procedure to install IIS, how to use the administrative tool, deploy IIS, and set up security. Also you’ll cover deployment features such as Web site copy, Strong Naming Assemblies, and updatable and not updatable. At the end of the Production Deployment section, you will better understand how to create a Web installer project, how to build output, ways to run the installer, set up remote configuration, and troubleshoot errors. Through this training, you will gain the knowledge, skills, and techniques needed to prepare for the Microsoft
Standard Courses

(70-528) .NET Framework 2.0 — Web-based Client Development exam.

Custom Error Pages............................. 1279_001
Changing Configuration....................... 1279_002
Deployment Features............................ 1279_003
IIS................................................. 1279_004
Production Deployment......................... 1279_005

ISA Server
2004 (70-350) Series
Installing, Deploying, Securing & Upgrading ISA Server 2004

Course Number: 1104
Time: 180 Minutes

Topics covered include everything from planning and installation, to security configuration and remote monitoring, to features of firewall integration. Concerning the installation process, you will find descriptions on the different deployment scenarios a network administrator could run into when implementing security, along with details that walk you through how to install ISA Server 2004 and configure security. In the security section, you will look at firewall integration for ISA Sever 2004, the Security Configuration Wizard, server roles, and network templates. These are security tools and features used to secure the system.

Planning to Install .......................... 1104_001
Deployment Scenarios ......................... 1104_002
Prepare the Server ............................ 1104_003
Upgrade to ISA Server 2004 ............... 1104_004
Installation................................. 1104_005
Securing the Operating System ............ 1104_006
Built-In Security.............................. 1104_007

SecureNAT, Web Proxy Client, Firewall Client, & Troubleshooting Connectivity in ISA Server 2004

Course Number: 1105
Time: 135 Minutes

You will be instructed in how to use SecureNAT in addition to Web Proxy and Firewall clients. On top of security, you will also gain a deeper understanding of how to troubleshoot connectivity issues in ISA Server 2004. The course wraps up by concentrating on two areas: roles and backups. Both are essential, configurable features in ISA Server 2004 that save administrators a lot of extra work through planning and saving beforehand for ISA Server global management and ISA Server recovery.

Making the Client Choice ...................... 1105_001
Setting Up SecureNAT and Web Proxy..... 1105_002
Setting Up the Firewall Client............. 1105_003
Troubleshooting Connectivity .......... 1105_004
Configuring and Managing ................. 1105_005
Configuration Backup and Restore ....... 1105_006

Network Rules, Web Chaining, Dial-Up, Firewall Policies, Filters & Intrusion Alerts in ISA Server 2004

Course Number: 1106
Time: 165 Minutes

You will be instructed in the structure of networks by identifying networking objects and connections, and the role of Web chaining over a network. There are detailed explanations, which provide a step-by-step walk through scenarios for a number of firewall configurations through firewall policies, access protocol, and FTP and RPC filters. You will learn about the role of Web content filters and intrusion alerts, which are both security elements part of ISA Server 2004.

Networking Objects ......................... 1106_001
Web Chaining .................................. 1106_002
Dial-Up Connections......................... 1106_003
Configuring a Firewall Policy ............. 1106_004
Planning a Firewall Policy ................. 1106_005
Web Content Filters......................... 1106_006
Intrusion Alerts............................. 1106_007


Course Number: 1107
Time: 165 Minutes

ISA Server is a full-featured, application-layer firewall designed to protect organizations from attack by both external and internal IT security threats. This video training explains VPN architecture support, filtering methods, and VPN traffic inspection capabilities within ISA Server 2004. Other topics discovered are policy rules for server publishing in different scenarios, the role of Web server publishing including an explanation of link translation and publishing configuration, how to use SSL Web sites, the Mail Server Wizard, and Web caching in ISA Server 2004.

Policy Rules for Server Publishing .......... 1107_001
Web Server Publishing .................... 1107_002
Standard Courses

SSL Web Sites ....................................... 1107_003
Mail Server Wizard ................................. 1107_004
Web Caching .......................................... 1107_005
Remote Access ....................................... 1107_006
VPN Technology ...................................... 1107_007


Course Number: 1108  
Time: 150 Minutes

This is a preparatory course for the Microsoft exam 70-350 that focuses on different monitoring techniques in ISA Server 2004 particularly logging, reporting, CARP, and network load balancing. ISA Server is a full-featured, application-layer firewall designed to protect organizations from attack by both external and internal IT security threats. There are different versions of ISA Server 2004. You will be given an overview of the enterprise edition explaining the design differences, how to install it, and how to conduct basic tasks on it as in defining arrays, creating rules, and running ISA Server 2004 Enterprise Edition.

Logging ............................................. 1108_001
Reporting ............................................ 1108_002
Enterprise Edition .................................. 1108_003
Enterprise Management ............................ 1108_004
Enterprise Arrays ................................... 1108_005
Network Load Balancing ............................ 1108_006
CARP ................................................. 1108_007

■ Windows XP User Support (70-271) Series

Installation, Post-Install Updating, Local Users and Groups in a Windows XP Operating System

Course Number: 1431  
Time: 225 Minutes  
Number of Quizzes: 2 Quizzes

Gather knowledge on how to prepare for installation and how to execute an OS installation. You’ll go over different installation types specifically standard installation, unattended installation, and upgrading installation. Post installation, you may need to do intermediate updates, automatic updates, or post-installation updating with Service Packs as they are sometimes part of the configuration process. As you’re familiarizing yourself with the XP operating system, you will also learn about the different features and support tools available in XP Professional versus XP Home. The last portion of the course introduces you to local users and groups as you study user accounts and groups, how to create a user or group, ways to adjust user properties, and how to use the Command Prompt. Use this course to become acquainted with the Windows XP operating system.

Understanding NTFS ............................. 1432_001
NTFS Permissions ................................. 1432_002
Shared Folders .................................... 1432_003
File Encryption ................................. 1432_004
Data Storage .................................... 1432_005
Installing Local Printers .......................... 1432_006
Installing Network Printers ..................... 1432_007
Storage, Display and I/O Devices, ACPI, Security Settings and Policies in a Windows XP Operating System

Course Number: 1433
Time: 225 Minutes
Number of Quizzes: 2 Quizzes

Looking into hardware devices and drivers, you will go over types of storage devices, types of display devices, the ACPI interface, and input and output devices. Continuing your training, you will get into the details of user environment as you work with user settings and profiles. The rest of your training will be spent studying security settings and Group Policy locally and on the network. The Group Policy section goes into detail about computer policies, user profiles, the RSoP tool, AD users and computers, GPO hierarchies, inheritance, and GPO results. Deepen your understanding of how the hardware requirements and user environment specifications are required in order to use Windows XP OS.

Storage Device Types.................................. 1433_001
Types of Display Devices............................. 1433_002
ACPI Interface.................................. 1433_003
I/O Devices...................................... 1433_004
User Settings & Profiles........................... 1433_005
Security Settings.................................. 1433_006
Local Policies.................................... 1433_007
Network Policies.................................. 1433_008

Startup, System Performance, TCP/IP, DNS, NetBIOS, Remote Desktop Support and IE in a Windows XP Operating System

Course Number: 1434
Time: 225 Minutes
Number of Quizzes: 2 Quizzes

Continuing discussions on the user environment, you will gain an understanding of the boot and logon process, startup and recovery, and the boot.ini. Additionally, you will look at system performance through the Task Manager. Then you’ll shift your attention to networking concepts and network troubleshooting particularly for the TCP/IP protocol, NetBIOS, DNS, and Internet Explorer. You will also learn about remote connections, which details dial-up networking, General and Options settings, and Security and Other settings; and Remote Desktop support, which describes connections and settings, Remote Assistance, and how to enable and configure Remote Desktop. Gain an in-depth understanding of the Windows XP operating system.

Startup & Logon.................................... 1434_001
System Performance............................... 1434_002

Support Windows XP OS (70-271) (Consolidated)

Course Number: 8
Time: 570 Minutes
Number of Quizzes: 8 Quizzes

Gain an understanding of what it takes to install Windows XP update from earlier Windows OS and configure peripheral devices. Instructor Tom Carpenter creates an exciting and insightful learning environment with his expert command of topics covered. Watch as he demonstrate establishing user and group accounts, security settings and local security policy along with demonstrations on security settings and establishing user accounts. This training provides all the needed knowledge, along with additional study material, that you can put to the test in order to pass Microsoft’s Windows XP Troubleshooting Windows (70-271) exam.

Defining an MCDST.................................. 8_001
Preparing for OS Installation...................... 8_002
Standard Installation................................ 8_003
Unattended Installation............................ 8_004
Upgrading Installation.............................. 8_005
Post-Install Updating............................... 8_006
XP Professional vs. XP Home...................... 8_007
Local Users and Groups............................ 8_008
Understanding NTFS ................................ 8_009
NTFS Permissions.................................. 8_010
Shared Folders...................................... 8_011
File Encryption..................................... 8_012
Data Storage....................................... 8_013
Installing Local Printers.......................... 8_014
Installing Network Printers...................... 8_015
Storage Device Types.............................. 8_016
Types of Display Devices......................... 8_017
ACPI Interface..................................... 8_018
I/O Devices....................................... 8_019
User Settings and Profiles....................... 8_020
Security Settings.................................. 8_021
Local Group Policies............................... 8_022
Network Group Policies............................ 8_023
Standard Courses

Microsoft MTA

. NET Fundamentals (98-372) Series
Introduction, Classes, Inheritance, Casting, Generics, Interfaces and Class Libraries

Course Number: 1280
Time: 90 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 7 Labs

As an introduction to the MTA .NET Fundamentals exam, learn about the exam objectives. Then you’ll get into the technical side of things as you look at how to create an application using controls and source code, ways to work with classes, and inheritance and casting. In working with classes, you learn about label class properties, label class methods, how to create a console application, create custom classes, create an instance of the custom class, and use ArrayLists. You will also study generics and class libraries. The class library discussions explain how to create a class library, ways to configure strong naming, library versioning, interoperability, and how to specify the App assembly version. All in all, you are preparing to sit for the 98-372 exam.

Creating a New Application ................. 1280_001
Working with Classes .......................... 1280_002
Inheritance and Casting ...................... 1280_003
Generics and Interfaces ...................... 1280_004
Class Libraries ............................... 1280_005

Global Assembly Cache, Files, Values and Reference Types, Boxing and Unboxing, Application Settings and Handling Events

Course Number: 1281
Time: 90 Minutes
Number of Quizzes: 3 Quizzes
Number of Labs: 4 Labs

Deepen your understanding of .NET Framework 4 as you observe how to work with files, configure user and application settings, and raise and respond to events. In the user and application settings section, you will study app.config and the process taken to configure these settings. You will also go through discussions on Global Assembly Cache, value and reference types, and boxing and unboxing. For the value and reference types discussion, you will learn the difference between value and reference types, how to change values in methods, about the SecureString class, about displaying and changing SecureString values, and about nonmutable strings. Altogether, these topics will help prepare you for the 98-372 MTA .NET Fundamentals exam.

Understanding Global Assembly Cache ......... 1281_001
Working with Files .................................. 1281_002
Value and Reference Types ................... 1281_003
Understanding Boxing and Unboxing ........ 1281_004
Configuring User/App Settings .................. 1281_005
Raising and Responding to Events ............ 1281_006

XML Structure, Security, Common Language Runtime and Exam Review

Course Number: 1282
Time: 60 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 4 Labs

Get into XML structure as you train in how to use machine.config, web.config, XML Source Code, and the XmlWriter and XmlReader class. You will also spend some time studying security in .NET framework, which encompasses cryptography, private key encryption, stream objects, decryption, authentication, authorization, and code access security. You will learn about common language runtime, its relationship to .NET application and Web application versioning, the different versions of .NET, how to configure application pools, the purpose of unmanaged code, and how to work with sandboxing. All these topics will help prepare you for the MTA .NET Fundamentals exam. To further aid in your preparations, you are provided with a review of the .NET framework,
classes, events, exceptions, assemblies, the .NET configuration scheme, and memory management.

Understanding XML Structure.............. 1282_001
Security ........................................... 1282_002
Common Language Runtime .................. 1282_003
Exam Review ..................................... 1282_004

**MTA .NET Fundamentals (98-372) (Consolidated)**

Course Number: 477
Time: 300 Minutes
Number of Quizzes: 8 Quizzes
Number of Labs: 15 Labs

Tony Northrup has focused on Windows development and administration for the last eighteen years. Author of 30 technology books and training programs, he brings this experience to our MTA .NET Fundamentals course. Tony covers all of the objectives of certification exam 98-372 while providing students with real-world development techniques. MTA .NET Development Fundamentals is designed to provide students with an explanation and understanding of Microsoft’s .NET Framework. LearnSmart provides additional study material, including interactive testing, in an effort to help students feel more confident when taking the actual certification exam.

Introduction ....................................... 477_001
Creating a New Application ..................... 477_002
Working with Classes ........................... 477_003
Inheritance and Casting ......................... 477_004
Generics and Interfaces .......................... 477_005
Class Libraries ..................................... 477_006
Understanding Global Assembly Cache ...... 477_007
Working with Files .................................. 477_008
Value and Reference Types ....................... 477_009
Understanding Boxing and Unboxing .......... 477_010
Configuring User/App Settings ................. 477_011
Raising and Responding to Events .......... 477_012
Understanding XML Structure ................. 477_013
Security ........................................... 477_014
Common Language Runtime ..................... 477_015
Exam Review ..................................... 477_016

**Database Administration Fundamentals (98-364) Series**

**Database Tables and Relationships, DML, Database Data Types, Tables and Data**

Course Number: 1283
Time: 105 Minutes
Number of Labs: 2 Labs

Microsoft offers exam 98-364 to evaluate individual’s knowledge of and skills for databases. Deepen your understanding of database topics by reviewing the database basics of tables, relationships, and database data types. In the relationships section, you will look at flat file and relational databases, the benefits of relational databases, recursive relationships, and M:N relationships. There is a section dedicated to DML where you’ll concentrate on structured query language, data control language, and DDL/DML. You will also go over selecting data using the SELECT statement, expressions, and operators. Prepare for the Database Fundamentals (98-364) exam as you reinforce your foundational understanding of databases.

Database Tables ................................... 1283_001
Database Relationships ......................... 1283_002
Understanding DML ............................... 1283_003
Database Data Types ............................. 1283_004
Creating and Manipulating Tables .......... 1283_005
Selecting Data .................................... 1283_006

**Filtering Data, Functions, Sorting and Joining Data, OUTER and CROSS JOINs, Duplicates and Result Sets**

Course Number: 1284
Time: 165 Minutes
Number of Labs: 2 Labs

Your primary focus will be given to data and joins. Cover selecting data using aggregate function types, sorting data with ORDER BY, working with duplicates to eliminate them, and filtering data using comparisons, lists, ranges, NULLs, and pattern matching. Then the discussions based on joins begins in the Joining Data section, where you’re introduced to joins, and the different join types - inner, outer, and cross joins. From there you will look at combining and limiting results as you study unions, TOPN, intersects and exceptions. In the 98-364 exam, you’re proving that you know everything concerning
database administration. In preparation for that exam, make sure you internalize all these topics and accumulate the skills that you need.

Filtering Data using Comparisons............... 1284_001
Filtering Data using Lists and Ranges ........... 1284_002
Filtering Data using Pattern Matching .......... 1284_003
Filtering Data with NULLs ........................ 1284_004
Selecting Data using Functions .................. 1284_005
Sorting Data ........................................ 1284_006
Working with Duplicates ......................... 1284_007
Joining Data ........................................ 1284_008
OUTER and CROSS JOINs ........................... 1284_009
Combining and Limiting Result Sets .............. 1284_010

**Adding and Deleting Data, Views, Functions, Data Normalization and Normal Forms**

Course Number: 1285
Time: 135 Minutes
Number of Labs: 2 Labs

Continue learning about ways to manipulate data as you observe how to insert data and partial values, update data, delete data using subqueries, data normalization to address anomalies, and commit a transaction. Transition from focusing on data to concentrating on working with views to filter data and rename columns, creating forms - first through fifth - as well as stored procedures. In the stored procedures section you find the definition of stored procedures, find out how to do late binding, use parameters with stored procedures, and explore the difference between calling scalar, table-valued, and scalar functions. With the skills and knowledge you gain here, you’ll be prepared to sit for Microsoft’s Database Fundamentals (98-364) exam.

Adding Data ........................................... 1285_001
Updating and Deleting Data ....................... 1285_002
Working with Views ................................. 1285_003
Stored Procedures and Functions .............. 1285_004
Data Normalization ................................. 1285_005
First Normal Form .................................. 1285_006
Second and Third Normal Forms ............... 1285_007
Fourth and Fifth Normal Forms ................ 1285_008

**Primary Keys, Clustered and Non-Clustered Indexes, Database Security Concepts and Backups**

Course Number: 1286
Time: 105 Minutes
Number of Labs: 4 Labs

Delve into keys, indexes, security concepts, and backup and recovery. For the discussion on indexes, you will look at clustered and non-clustered indexes to see how indexes improve table scans, work on a heap table, and what the purpose of a non-indexed table execution plan or indexed table execution plan is. Security concepts covered include SQL security steps, fixed server roles, permissions hierarchy, users, and role usage. In the backup and recovery section, you will focus on topics such as restore types, steps to performing a full backup, normal log backup, transaction log backup and restore, and SQL backup methods, rights, and permissions. Prepare to take Microsoft’s 98-364 Database Fundamentals exam.

Primary, Foreign, and Composite Keys .......... 1286_001
Clustered Indexes ................................... 1286_002
Non-Clustered Indexes ............................. 1286_003
Database Security Concepts ..................... 1286_004
Database Backup and Restore .................... 1286_005
Incremental Backups ................................ 1286_006

**MTA Networking Fundamentals (98-366) Series**

**Network Connectivity, LANs, WANs, Wireless Networking, Networking Topologies and Access Methods**

Course Number: 1287
Time: 210 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 3 Labs

If you’re looking to gain certification toward your MTA, you must take Microsoft’s 98-366 Networking Fundamentals exam. Before you can sit for the exam, it’s important that you understand the exam prerequisites, have a foundational understanding of networking, know what the knowledge domains are, and are able to identify the important network components and parts of the simple computer network diagram. Part of deepening your foundational understanding of networking is having internalized everything there is to know about the Internet, intranet, extranet, LANs and WANs, wireless networking, and networking topologies. Through this training, you will learn about each of those topics and be thoroughly prepared for the Networking Fundamentals exam.

Internet, Intranet, and Extranet ................. 1287_001
Understanding LANs ............................... 1287_002
Wired vs. Wireless LANs .......................... 1287_003
Understanding WANs .............................. 1287_004
Understanding Wireless Networking .......... 1287_005
Networking Topologies and Access Methods ..... 1287_006
Standard Courses

Understanding Switches, Routers and Network Cabling
Course Number: 1288
Time: 150 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 2 Labs

Train in networking concepts associated with Windows Server 2008 as you study switches, routers, and cabling. The majority of this training is spent discussing switches. It highlights Ethernet, transmissions speeds, cables, MAC addressing, hubs, different types of switches, circuit switching, cell switching, and MAC tables. In the routing section, you will review the definition of what a router is, go over dynamic routing and routing tables, and the process of routing with Windows. The topics covered in cabling include common network media, cable types, interference considerations, and EIA network wiring standards. Focus on learning the tips, techniques, and knowledge associated with each of these topics to prepare for the MTA Networking Fundamentals (98-366) exam.

Understanding Switches............................ 1288_001
Switches in Depth ................................ 1288_002
Understanding Routers.............................. 1288_003
Network Cabling Part I .............................. 1288_004
Network Cabling Part II ............................ 1288_005

The OSI Model, IP Addressing, Name Resolution, Networking Services and Tools
Course Number: 1289
Time: 180 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 2 Labs

Take a closer look at networking fundamentals as you study the OSI model and terminology. Study its role in encapsulation, the protocols and ports utilized, and the function of each layer. Next you’ll find details on IP addressing, the different types of IP addressing, the concept of classful IP addressing, and explanations of network address breakdown. After IP addressing, you will be introduced to name resolution as you look at the process of name resolution and the DNS diagram. The remainder of the course is spent exploring networking services and tools such as DHCP, TCP/IP, as well as PING, ARP, NETSTAT, TRACERT, and IPCONFIG commands. Prepare for Microsoft’s MTA Networking Fundamentals (98-366) exam.

Understanding the OSI Model Part I.......... 1289_001
Understanding the OSI Model Part II........ 1289_002
IP Addressing Part I .............................. 1289_003
IP Addressing Part II ............................ 1289_004
Networking Services and Tools............... 1289_005

MTA Networking Fundamentals (98-366) (Consolidated)
Course Number: 429
Time: 315 Minutes
Number of Quizzes: 7 Quizzes
Number of Labs: 8 Labs

MTA Networking Fundamentals from LearnSmart is designed to provide students with an explanation and understanding of fundamental networking concepts. This training course prepares students for Microsoft exam 98-366 objectives. Instructor Scott Kennedy provides students with an understanding of the basics of Internet, intranet and extranet. Understand the difference between switches and routers, and how they are configured. In addition, you will also be introduced to the OSI 7-layer networking model, IPv4 and IPv6.

Introduction........................................ 429_001
Internet, Intranet, and Extranet.......... 429_002
Understanding LANs ............................. 429_003
Wired vs. Wireless LANs...................... 429_004
Understanding WANs......................... 429_005
Understanding Wireless Networking........ 429_006
Networking Topologies and Access Methods 429_007
Understanding Switches...................... 429_008
Switches in Depth ............................... 429_009
Understanding Routers......................... 429_010
Network Cabling Part I ......................... 429_011
Network Cabling Part II ....................... 429_012
Understanding the OSI Model Part I.... 429_013
Understanding the OSI Model Part II ..... 429_014
IP Addressing Part I ........................... 429_015
IP Addressing Part II .......................... 429_016
Introduction to Name Resolution.......... 429_017
Networking Services and Tools.............. 429_018
MTA Security Fundamentals (98-367) Series

Security Principles, Threats, Risks, Authentication, Password Policies, User and Group Management

Course Number: 1290
Time: 120 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 4 Labs

The MTA Security Fundamentals exam certifies individuals that display a proficiency in implementing security layers, operating system security, network security, and security software. Become familiar with the exam knowledge domains, some exam prep tips, security fundamentals, Microsoft certification paths, and security principles such as AAA, least privilege, attach surface, and defense-in-depth. After those discussions, the first topics explored are threats and risks where you’ll study internal and external threats, types of attackers, common attach methods, social engineering, attack phases, and how to perform a personal risk assessment. Other topics discussed include authentication fundamentals, password policies, and user and group management. Begin your preparations for the 98-367 exam.

Security Principles ......................... 1290_001
Threats and Risks ......................... 1290_002
Authentication Fundamentals ........... 1290_003
Windows/PKI Authentication .......... 1290_004
Password Policies ....................... 1290_005
User/Group Management ............... 1290_006

Permission Management, Auditing, Physical Security Solutions, Malware Protection and Encryption

Course Number: 1291
Time: 120 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 6 Labs

Once you set up and configure a network, the next step is to ensure that the appropriate security is in place to protect it. Delve into permission management, auditing, physical security solutions, Internet Explorer security, encryption basics and encryption technologies, and malware protection against viruses, worms, and Trojan horses. For Internet Explorer Security, you will look at IT security zones, general options in IE, secure Web sites, and InPrivate filtering and browsing. Then in the encryption basics discussion, you will learn about cryptography, encryption types, symmetric encryption, asymmetric encryption, public key cryptography, and PKI applications. Thoroughly learn all these topics to ensure you’re prepared for the 98-367 MTA Security Fundamentals exam.

Permission Management .................. 1291_001
Auditing ...................................... 1291_002
Physical Security Solutions .......... 1291_003
Malware Protection ...................... 1291_004
Internet Explorer Security .......... 1291_005
Encryption Basics ....................... 1291_006
Windows Encryption Technologies .... 1291_007


Course Number: 1292
Time: 120 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 4 Labs

Continue your studies in security concepts as you look at network concepts and specific types of protection. The network concepts covered encompass network perimeter security, which involves firewalls and UTM/SCM; network segmentation; NAP topics such as NAP requirements, NAP implementation methods, and its architecture; network protocol security, where you’ll look at network protocols, network scanning, sniffers, and ARP spoofing; and wireless network security. Each of the areas of protection - client protection, server protection, and email protection - describes the processes, properties, and tools that are used. In the end, you will have gained more knowledge to help prepare you for Microsoft’s 98-367 MTA Security Fundamentals exam.

Network Perimeter Security .............. 1292_001
Network Segmentation .................. 1292_002
NAP ........................................... 1292_003
Network Protocol Security .......... 1292_004
Wireless Network Security .......... 1292_005
Client Protection ...................... 1292_006
Server Protection ....................... 1292_007
Email Protection ....................... 1292_008
MTA Software Development Fundamentals (98-361) Series

General Software Development, Computer Storage, Data Types, Flow Control, Repetition, Error Handling, Classes and Objects

Reinforce your software development skills as you review the fundamentals, look at the application life cycle, understand user requirements, learn the definition of algorithm, and train in how to apply and sort them. Whenever you’re working with software, you need to have some place to store all the data. So you’ll also need to look into data types and their storage, numbering systems, binary storage, the machine code process, different array types, stacks, queues, and linked lists. From there, you’ll go on to study flow control, repetition, error handling, classes, and objects. In the classes and objects section, you will spend time going through the definition of class, class declaration, methods, visibility modifiers, aliases, new objects, and the Dot Operator. Gain all the skills, knowledge, and techniques you need to prepare for Microsoft’s Software Development Fundamentals (98-361) exam.

Inheritance, Polymorphism, Encapsulation, Application Development and Working with Databases

Familiarize yourself with the concepts in Microsoft’s 98-361 Software Development Fundamentals exam. The topics covered include inheritance, polymorphism, encapsulation, Web application development, desktop application development, and working with databases. In the inheritance, polymorphism, and encapsulation section, you will find definitions for each of those terms, as well as explanations further describing them. The majority of your training will be in the database section, where you’ll focus your attention on relational database management systems, tables, referential integrity, normalization, SQL stored procedures, resource optimization, and demonstrations on reading flat file data and database data. Upon completion, you can be confident that you are prepared to sit for the 98-361 exam.

MTA Software Development Fundamentals (98-361)

Inheritance, Polymorphism, Encapsulation, Application Development and Working with Databases

LearnSmart can help prepare you for a career in the technology field by assessing your knowledge and skills as they relate to fundamental software development concepts. Engaging and easy-to-follow video instruction is provided by Margaret “Peggy” Fisher who accumulated over 18 years’ experience in the IT field before becoming a Computer Science teacher. Topics she discusses include Object Oriented Programming, error handling, and the fundamentals of ASP.NET development. You will come to understand the differences between Inheritance, Encapsulation, and Polymorphism. This training is ideal for high school or college students starting to consider their IT interests or who are seeking MTA Certification, which is recommended by Microsoft as an entry point to other certifications. Additional study materials and interactive testing are also provided as part of this course.
MTA Web Development Fundamentals (98-363) Series


Course Number: 1298
Time: 120 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 3 Labs

Build on your understanding of .NET framework, Windows Visual Studio, and C# as you study for Microsoft’s Web Development Fundamentals (98-363) exam. Learn about the 98-363 exam, its objectives, and where it falls on the Microsoft certification path. Focus on the programming Web applications objective as you study Web page structure, page layout customization, Web app structure, page life cycle, and application and session life cycles. Another topic covered is Web communications where you’ll look at HTTP, Web server responsibilities, intrinsic objects, tracing, how to display request properties, the steps to adding a querystring object, and the purpose of server.transfer and response.redirect.

Understanding Web Page Structure........... 1298_001
Customizing Page Layout ...................... 1298_002
Understanding Web App Structure.......... 1298_003
Understanding Page Life Cycle............... 1298_004
Application and Session Life Cycles ........ 1298_005
Understanding Web Communications......... 1298_006

Web Site Configuration, Bugs, Errors, and Exceptions, Web Page Deployment, Web Page Management and Storing Data

Course Number: 1299
Time: 75 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 4 Labs

Work with data and services as you learn how to store data; dive into configuring and deploying Web applications; and solve issues as you troubleshoot and debug applications. For starters, go through discussions on storing data in client-side storage, server-side storage, and in cookies. Next, you’ll train in configuring and deploying Web application topics including Web application configuration, application settings, Web page deployment methods, publishing a Web application, application pools for Web page management, and configuring deployment options. Alongside those topics, you will also learn about error pages and how to handle them, catching exceptions, using response.write and trace.write, and how to utilize breakpoints to debug in VS. Prepare for Microsoft’s Web Development Fundamentals (98-363) exam.

Understanding Web Site Configuration........ 1299_001
Bugs, Errors, and Exceptions ................ 1299_002
Web Page Deployment ......................... 1299_003
Web Page Management ....................... 1299_004
Storing Data ...................................... 1299_005

XML, Web Services, Databases, Binding Data to Web, Client-Side Programming and Scripting Technologies

Course Number: 1300
Time: 90 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 4 Labs

Continue the discussion of working with data and services by concentrating on XML, Web services, databases, and binding data to Web. In the XML section, you will discover what exactly XML is, how to read an XML document, how to display XML to the client, XmlNodeType, and the different classes of XML. Learn the principles behind client-side scripting as you study JavaScript, AJAX, and VBScript. Binding data to Web requires understanding LINQ queries, legacy database classes, and database connections. Through these training topics, you will cover two of the 98-363 exam objectives. Now you’re on your way to preparing for Microsoft’s Web Development Fundamentals exam.

XML .................................................... 1300_001
Web Services ....................................... 1300_002
Working with Databases ..................... 1300_003
Binding Data to Web ......................... 1300_004
Client-Side Programming ................... 1300_005
Client-Side Scripting Technologies .......... 1300_006

Web Forms Authentication, Windows Authentication, Data Validation and Exam Review

Course Number: 1301
Time: 90 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 3 Labs

Microsoft’s 98-363 Web Development Fundamentals exam assesses your knowledge of all topics surrounding Web page and application development. Part of configuring and deploying Web applications is knowing how to execute authentication. The next topic covered is data validation,
which concentrates on the function of validation, validation classes, and how to use the validator controls. Wrap up the remainder of the course with an exam review as you review CSS, controls, tracing, deployment methods, data sources, and more. Train with the exam review and learn all the topics covered to solidify your understanding of Web development concepts to prepare for the 98-363 certification exam.

### MTA Web Development Fundamentals (98-363) (Consolidated)

Course Number: 478  
Time: 405 Minutes  
Number of Quizzes: 9 Quizzes  
Number of Labs: 18 Labs

Learn the fundamentals of ASP.NET development from LearnSmart. The MTA Web Development Fundamentals course provides users with an in-depth understanding of core programming concepts like: Object-Oriented Programming, Error Handling, and Computer Decision Structure as they come to know the difference between Inheritance, Encapsulation, and Polymorphism. Video instruction is provided by Tony Northrup, who has focused on Windows development and administration for the last eighteen years. Author of 30 technology books and training programs, Tony covers all of the certification exam objectives while providing users with real-world development techniques. This course serves as the perfect primer for college and high school students looking to improve work applications and resumes. LearnSmart provides supplemental study aids for those preparing for Microsoft’s 98-363 exam.

- Understanding Web Page Structure .................. 478_001  
- Customizing Page Layout ............................. 478_002  
- Understanding Web App Structure .................. 478_003  
- Understanding Page Life Cycle ...................... 478_004  
- Application and Session Life Cycles ............... 478_005  
- Understanding Web Communications ................ 478_006  
- Understanding Web Site Configuration .............. 478_007  
- Bugs, Errors, and Exceptions ......................... 478_008  
- Web Page Deployment .................................. 478_009  
- Web Page Deployment .................................. 478_009  
- Web Page Management .................................. 478_010  
- Storing Data ............................................. 478_011  
- XML ....................................................... 478_012

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### MTA Windows Development Fundamentals (98-362) Series

#### Windows Programming Basics, Windows Forms Applications and Windows Service Application

Course Number: 1307  
Time: 60 Minutes  
Number of Quizzes: 3 Quizzes  
Number of Labs: 3 Labs

Start out training in Windows programming basics, where you’ll learn about Windows application types, Win32 applications, considerations for user interface design, common GUI components, menus and toolbars, and app development using VS. Once you’ve learned about app development, you can begin working with different apps like form applications and service applications. Regarding form applications, you will concentrate on handling events, Windows forms inheritance, creating new controls, input validation, using the VS Debugger, and how to debug Windows services. Begin accumulating knowledge on developing applications to run in a Windows environment.

- Windows Programming Basics ...................... 1307_001  
- Working with Windows Forms Applications ............ 1307_002  
- Windows Service Applications ........................ 1307_003

#### Data Access Consideration and Deploying Windows Applications

Course Number: 1308  
Time: 45 Minutes  
Number of Quizzes: 2 Quizzes

You’ll focus on data access considerations and Windows application deployment. The data access considerations you’ll need to keep in mind are the data access flow control or data access methods, data binding, the toolbox for databound controls, the ways to display bound data, how
to validate databound items, how to bind form controls using data, how to access data in the forms app, and how to bind form controls to a database. Then for application deployment, you will concentrate on deployment methods, study Windows app setup and deployment, and look at a demonstration on how to deploy Windows applications. Use these topics to deepen your understanding of application deployment in a Windows environment.

Data Access Considerations .......................... 1308_001
Deploying Windows Applications............... 1308_002

MTA Windows Development Fundamentals (98-362)
Course Number: 471
Time: 90 Minutes
Number of Quizzes: 7 Quizzes
Number of Labs: 3 Labs

LearnSmart provides individuals with the knowledge needed to develop applications for use on a Microsoft Windows operating system with Windows Development Fundamentals. Video instruction is provided by Margaret “Peggy” Fisher, who has been involved in the IT industry for over 18 years. Peggy explains the design and implementation of Windows GUI design and forms through thoughtful and engaging teaching methods. WPF and XAML coding methodologies are also covered. Individuals can further their understanding of course topics through supplemental study aids and testing that are also provided. This training is ideal for students starting to assess their IT interests and wish to receive MTA Certification that is recommended by Microsoft as an entry point to other certifications.

Windows Programming Basics .................. 471_001
Working with Windows Forms Applications . 471_002
Windows Service Applications ................. 471_003
Data Access Considerations ..................... 471_004
Deploying Windows Applications............... 471_005

MTA Operating System Fundamentals (98-349) Series
Windows OS, Interfaces, Installations, Desktop Features and Configuration
Course Number: 1310
Time: 135 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 5 Labs

You will find an introduction to the Windows Operating System and the MTA certification exam. In the Windows OS section, you will study its precursors - DOS, Windows 3.1, Windows 95, and Windows NT; and go over the basic OS architecture and rings in Windows. Alongside those introductions, you will begin familiarizing yourself with the Windows interfaces as you explore the desktop/taskbar, the GUI, the Command Prompt, and PowerShell. Then you will concentrate on the installation process by planning an installation and selecting an installation type. To wrap up your training, you’ll take a look at desktop features like notifications and administrative tools, and configuring the interface with gadgets and Aero. Gain a thorough understanding of these basics in a Windows 7 environment to begin preparing for the MTA 98-349 certification exam.

Introduction............................................ 1310_001
Windows OS.......................................... 1310_002
Windows Interfaces.............................. 1310_003
Planning Installations......................... 1310_004
Advanced Installation Topics............... 1310_005
Desktop Features................................. 1310_006
Configuring the Interface ...................... 1310_007

Applications, Configuration Settings, Control Panel, Mobility Solutions, MMC and PowerShell
Course Number: 1311
Time: 150 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 11 Labs

Once the Windows 7 OS is installed, you can start handling the native applications used for snipping and word processing, establishing configuration settings, and working with the Control Panel. In a Windows 7 environment, it is also important that you have an understanding of different mobility solutions, the MMC and PowerShell, and application and deployment
planning. The application section demonstrates how to use localized and networked applications, Group Policy app deployment, how to configure applications, and use MED-V and Services. At the end of this training, you will have better understanding of how to manage a Windows 7 environment. You will also be preparing to sit for the MTA Windows Operating System Fundamentals certification exam.

Using Native Applications .......................... 1311_001
Configuration Settings.............................. 1311_002
The Control Panel ................................. 1311_003
Control Panel Applets ......................... 1311_004
Mobility Solutions............................... 1311_005
MMC and PowerShell .......................... 1311_006
Planning for Applications ................. 1311_007
Application and Deployment Control .... 1311_008

Malware, File Systems, Libraries, Network Shares, Printers and Device Management
Course Number: 1312
Time: 150 Minutes
Number of Quizzes: 3 Quizzes
Number of Labs: 9 Labs

In the malware section, you will cover security, viruses and worms, trojans and backdoors, phishing attacks, planning for malware protection, Microsoft protection methods, how to use Windows Defender, how to configure MSE, the Action Center, and configuring User Account Control. Your training will also take you through file systems, libraries, and network shares. The network shares section goes over network hardware, name resolution, Windows workgroups and homegroups, network share types, share permissions, creating shares, the difference between basic and advanced shares, and how to map a drive to a shared location. Lastly, you will also find demonstrations on how to use printers and manage other devices through the Device Driver Manager. Learn the intricacies of Windows 7 to properly manage it in your environment, and prepare for the MTA 98-349 exam.

Malware ............................................. 1312_001
Controlling Malware .............................. 1312_002
File Systems ................................. 1312_003
Libraries ........................................ 1312_004
Network Shares .................................. 1312_005
Creating Shares ............................. 1312_006
Using Printers ................................ 1312_007
Managing Devices ................................ 1312_008

Storage, Troubleshooting, Backup, Restore and Patch Management
Course Number: 1313
Time: 120 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 6 Labs

From the discussions on storage, you will learn about different types of storage, selecting hard drives, hard disk standards, the difference between FAT and NTFS, networked storage, DFS for file distribution and file aggregation, RAID levels, cloud storage, and how to create a VHD file. You will also cover troubleshooting concepts like troubleshooting methodologies, REACT, the OSI model, ITIL publications, the Disk Defragmenter, how to schedule tasks, the Task Manager, and defragmenting the command line. And then, you’ll concentrate on backing up and restoring, where you’ll learn about backup methods, backup tools, the backup planning process, configuring a system restore, restore points, and advanced boot options. The last section of the training focuses on patch management. All in all, these topics will prepare you for the 98-349 certification exam.

Storage ............................................. 1313_001
Troubleshooting Theory ....................... 1313_002
Troubleshooting Tools ....................... 1313_003
Backup Solutions .............................. 1313_004
Backup and Restore ......................... 1313_005
Patch Management ........................... 1313_006

MTA Windows Operating System Fundamentals (98-349)
Course Number: 486
Time: 1110 Minutes
Number of Quizzes: 11 Quizzes
Number of Labs: 31 Labs

LearnSmart’s Video Training Course for MTA Windows Operating System Fundamentals was created to help students prepare to take the 98-349 exam, and earn their Microsoft Technology Associate (MTA) certification. This exam certifies that candidates have the foundational knowledge of the Microsoft Windows 7 Operating System needed to take the first step toward building a successful career in technology.

Introduction ...................................... 486_001
Windows OS ..................................... 486_002
Windows Interfaces .......................... 486_003
Planning Installations ....................... 486_004
Advanced Installation Topics ............. 486_005
Desktop Features ............................. 486_006
Through this training, you will learn server administration concepts to help you effectively manage Windows Server 2008.

Installing Windows Server ………………… 1293_001
Server Types ……………………………… 1293_002
Windows Server Roles …………………… 1293_003
File and Print Servers …………………… 1293_004
Active Directory ………………………… 1293_005
Managing Active Directory ……………… 1293_006

Internal and External Server Storage, RAID, Server Virtualization and Basic Server Administration
Course Number: 1294
Time: 105 Minutes
Number of Quizzes: 2 Quizzes

In this training, you’ll concentrate on three topics: storage, virtualization, and basic server administration. Storage covers internal and external server storage, as well as RAID technologies and levels. The discussions on virtualization focus on virtualization methods, the benefits of virtualization, virtual machine components, virtual machine management, and Hyper-V. The final portion of this course is dedicated to basic server administration topics such as hardware compatibility, patch management, server monitoring, and administration tips. Learn the details behind server storage, virtual machines, and server administration to prepare for the 98-365 Windows Server Administration Fundamentals exam.

Internal Server Storage …………………… 1294_001
External Server Storage …………………… 1294_002
Understanding RAID …………………… 1294_003
Configuring RAID ……………………… 1294_004
Server Virtualization …………………… 1294_005
Basic Server Administration …………… 1294_006

Server Maintenance, Processors, Memory, Performance Baselines, Troubleshooting and Disaster Recovery
Course Number: 1295
Time: 120 Minutes
Number of Quizzes: 1 Quiz

Concentrate on the processes, tools, and techniques involved in server maintenance such as working with disk management, creating new simple volume, reviewing update history, and understanding ITIL. Other topics covered in this training include processors and memory, performance baselines, troubleshooting server problems,
and booting the server. In the Booting the Server section, you will learn about the boot process, advanced boot options, managing services through the Command Prompt, how to configure service accounts, and service recovery options. Microsoft’s Windows Server Administration Fundamentals (98-365) exam assesses your ability to manage Windows Server 2008. Ensure that you are thoroughly prepared for the 98-365 exam.

Server Maintenance .......................... 1295_001
Processors and Memory ...................... 1295_002
Performance Baselines ...................... 1295_003
Troubleshooting Server Problems .......... 1295_004
Booting the Server .......................... 1295_005
Using Event Viewer .......................... 1295_006
Disaster Recovery ........................... 1295_007

MTA Server Administration Fundamentals (98-365) (Consolidated)

Course Number: 430
Time: 315 Minutes
Number of Quizzes: 7 Quizzes

Get prepared to pass Microsoft exam 98-365. Instructor Tom Carpenter guides you through each exam objective seamlessly in this training from LearnSmart. Gain an understanding of server installation and configuration techniques and well as understand and configure Active Directory domains, users, groups and computers. You will see how to perform regular maintenance using system monitoring and recovery methods, as well as obtain the baseline knowledge of building and managing Microsoft Windows Servers, Windows based network operating systems, Active Directory, account management, and system recovery tools.

Introduction .................................... 430_001
Installing Windows Server .................. 430_002
Server Types .................................. 430_003
Windows Server Roles ...................... 430_004
File and Print Servers ..................... 430_005
Active Directory ................................ 430_006
Managing Active Directory ................. 430_007
Server Maintenance ......................... 430_008
Processors and Memory .................... 430_009
Performance Baselines ..................... 430_010
Troubleshooting Server Problems ........ 430_011
Booting the Server ........................... 430_012

Using Event Viewer .......................... 430_013
Disaster Recovery ............................ 430_014
Processors and Memory ..................... 430_015
Performance Baselines ..................... 430_016
Troubleshooting Server Problems .......... 430_017
Booting the Server ........................... 430_018
Using Event Viewer .......................... 430_019
Disaster Recovery ............................ 430_020

Security

Advanced Exploitation Revealed Series

Exploits, Exploit Development, Tools and Metasploit
Course Number: 1159
Time: 120 Minutes
Number of Quizzes: 2 Quizzes

Exploits are tools used to find and magnify weaknesses in software to perform attacks. As an introduction to this topic, go through an overview of exploits where you will look at format strings, race conditions, stack function, heap overflow, and heap spraying. Continuing the discussion on exploits, you will look at exploit development and the tools involved as in metasploit, meterpreter, fuzzers, Milworm, and CORE IMPACT. You will also study metasploit at work. Topics covered in this section include updating metasploit, payloads, RPC DCOM exploit, input options, and verifying the exploit. Prepare for the CPTEngineer certification exam.

The Nature of Exploits ......................... 1159_001
Exploit Development and the Tools ......... 1159_002
Metasploit at Work ............................ 1159_003

SAINT, CORE IMPACT, Documentation, Risk Analysis, Report Content and Delivery

Course Number: 1160
Time: 120 Minutes
Number of Quizzes: 2 Quizzes

Increase your skills and knowledge on applying SAINT and CORE IMPACT, risk analysis and documentation, and report content and delivery. Your training will start in the SAINT and CORE IMPACT section, where you will find demonstrations on SAINTexploit and CORE IMPACT, as well as instructions on using the SAINTwriter and how to analyze the results. You will also learn about document
assets, generating the report, analyzing risk, using the report results matrix, and filling out the findings matrix. After you have the results, you have to present them. Go through explanations on how to deliver the report, state facts, create an executive summary and technical reports, provide summary recommendations and observations, and incorporate a statement of responsibility to finalize the reporting process.

SAINT and CORE IMPACT at Work ........ 1160_001
Documentation and Risk Analysis .......... 1160_002
Report Content and Delivery............. 1160_003

## CISSP® 2008 Series

### Information Security Governance and Risk Management 2008

Course Number: 825  
Time: 135 Minutes  
Number of Quizzes: 1 Quiz

Start out with an introduction to CISSP and the CISSP 2008 exam by looking at the requirements, reviewing the exam domains, and emphasizing the foundations of security - CIA. You will also learn about security management training, risk assessment, and security policies. In order for these security precautions to take effect, there has to be a trained, ethical, knowledgeable team of administrators to implement security. Learn how to collect a team by hiring the right individuals based on accurate job descriptions and proper training. Overall, you are provided with information on crucial security concepts, while gaining knowledge required to prepare you for the CISSP (2008 Edition) certification exam.

Access Control Systems and Methodology.... 825_001  
Access Control Basics.......................... 825_002  
Data Classification ............................... 825_003  
Access Control Techniques..................... 825_004  
Access Control Implementation............... 825_005  
Identification and Authentication........... 825_006  
Attack and Monitor............................. 825_007  
Telecommunications and Network Security.... 825_008  
OSI Reference Model............................ 825_009

### Cryptography 2008

Course Number: 827  
Time: 105 Minutes  
Number of Quizzes: 1 Quiz

Prepare for the 2008 CISSP certification exam by focusing on cryptography. Cryptography is an effective way of securing system resources. Learn how cryptography functions and the different skills and techniques used to implement it. Topics covered include its history and goals, the concepts and methodologies behind authentication, cryptographic algorithms, system architecture, and methods of attack. As an administrator, you must understand the relationship between PEM, MOSS, MIME, SSL, HTTPS, and IPSec in the system architecture.

Security Protocols and Services............... 827_001  
Security Techniques........................... 827_002  
Common Network Attacks..................... 827_003  
Information Security and Risk Management... 827_004  
The Security Triangle......................... 827_005  
Security Management Training............... 827_006

### Physical (Environmental) Security 2008

Course Number: 828  
Time: 90 Minutes  
Number of Quizzes: 1 Quiz

Physical security is just one way administrators can aid in protecting network resources. Furthermore, it takes into consideration fire safety, how to implement physical
access control, administrative controls, employee training, egress safety, and detective controls. You will concentrate on how physical security can be used to protect against threats 1-12. Upon completion, you will be able to identify the controls used within physical security, the requirements needed for physical security, and have a strategy to respond to environmental issues, like power outages, HVAC, water leaks, fire detection, or natural disasters. Through this course, you will begin preparing for the CISSP 2008 certification exam.

Risk Assessment ......................................................... 828_001
Security Policy .......................................................... 828_002
Job Policies and Training .............................................. 828_003
Ethics ........................................................................... 828_004
Application Security ...................................................... 828_005
Application Issues ......................................................... 828_006

Security Architecture and Design 2008
Course Number: 829
Time: 135 Minutes
Number of Quizzes: 2 Quizzes

Do you need to refresh on how to design a security architecture? Then start by designing an architecture that will meet the needs of the organization. You will look at machine operation, protection mechanisms, evaluation criteria, security models, common flaws, and security issues. You will go through common flaws and security issues in the same section, and you will go over covert channels, initialization state, parameter checking, maintenance hooks, timing issues, and EMR. CISSP 2008 certification exam assess how thorough your knowledge is of information security. So make sure you have a solid understanding of how to design a security architecture.

Databases and Warehousing ............................................. 829_001
Data and Information Storage .......................................... 829_002
System Development Controls ........................................ 829_003
Security Development Controls ....................................... 829_004
Malicious Code ............................................................. 829_005
Methods of Attack .......................................................... 829_006
Cryptography ............................................................... 829_007

Business Continuity and Disaster Recovery Planning 2008
Course Number: 830
Time: 90 Minutes

Start out by learning about BCP project scope, which includes industry standards, legislative compliance, and more. Topics covered include business impact analysis and designing a DRP and recovery plan. Your recovery plan should include an emergency response, data backups, offsite storage, emergency services, and details on utilities. It’s best to have a plan in place to quickly recover, in case a system experiences major issues. Implementing information security is as much prevention, as it is recovery. Prepare for disaster recovery and to pass your CISSP 2008 certification exam.

History and Goals ......................................................... 830_001
Concepts and Methodologies .......................................... 830_002
Cryptographic Algorithms .............................................. 830_003
Cryptographic Practices .................................................. 830_004
System Architecture ....................................................... 830_005

Telecommunications and Network Security 2008
Course Number: 831
Time: 195 Minutes
Number of Quizzes: 2 Quizzes

Telecommunications is a security concern because it encompasses different layers, switches, and routers from which issues can arise. Focus on the relationship between the various telecommunication components, and how they should be monitored and controlled to ensure network security. Some of the components considered are the OSI layers, media and LAN topologies, Remote Access security, network devices, and firewalls. Concerning Remote Access security, you will study VPN, PPTP, IPSec, connection security, user authentication, and node authentication. You can expect questions on telecommunication security to be on the CISSP 2008 certification exam. So ensure that you have firm understanding of it.

Methods of Attack .......................................................... 831_001
Physical Environmental Security ....................................... 831_002
Organization ............................................................... 831_003
Machine Operation ........................................................ 831_004
Operating Modes/Protection Mechanisms ......................... 831_005
Evaluation Criteria ......................................................... 831_006
Security Models ............................................................ 831_007
Common Flaws and Security Issues ................................... 831_008
Operations Security ......................................................... 831_009
Administrative Management ............................................ 831_010
Operation Controls .......................................................... 831_011
Auditing ................................................................. 831_012

Applications Security 2008
Course Number: 833
Time: 165 Minutes
Number of Quizzes: 1 Quiz

There are a number of issues associated with applications. Through this training, you learn how to identify those
threats and apply practical solutions to address them. The application issues you will explore include those found in software development, code, agents, applets, and objects. You will also study security in databases and warehouses. From there, you will shift to development controls, specifically system development controls and security develop controls. Afterwards, the last topics covered are malicious code and the various methods of attack. Learn all the techniques, tips, and concepts behind application security to prepare for the CISSP 2008 exam.

- Monitoring .................................................. 833_001
- Intrusion Detection .................................... 833_002
- Threats and Countermeasures ...................... 833_003
- Business Continuity and Disaster Recovery Planning ............... 833_004
- BCP Project Scope .................................... 833_005
- Business Impact Analysis ............................ 833_006
- DRP Planning and Recovery ......................... 833_007
- Recovery Plan .......................................... 833_008

**Operations Security 2008**

Course Number: 834  
Time: 120 Minutes  
Number of Quizzes: 1 Quiz

When preparing for the CISSP 2008 certification exam, you need to dedicate some time to learning about operation controls, which are the main tool used in operations security. Familiarize yourself with these controls and how they function. Explore record retention, backups, data removal, antivirus controls, privileged functions, and resource protection. You will also learn about auditing, monitoring, intrusion detection, threats and countermeasures. In the intrusion detection section, you will concentrate on intrusion prevention, IDS types, penetration testing, and identifying inappropriate activity.

- Recovery Plan Implementation ..................... 834_001
- Law, Regulation, Compliance, and Investigations ........... 834_002
- Types of Computer Crime .............................. 834_003
- Categories of Law ....................................... 834_004
- Computer Laws ......................................... 834_005
- Types of Incidents ...................................... 834_006
- Incident Handling ...................................... 834_007

**Legal, Regulation, Compliance & Investigation 2008**

Course Number: 835  
Time: 120 Minutes  
Number of Quizzes: 1 Quiz

You will primarily focus on computer crime and the laws established in response to those crimes. Topics covered include types of computer crime, the different categories of law, computer laws. In computer laws, you will focus on government intervention through the Fraud and Abuse Act, Computer Security Act, Amended Security Act, and the Security Reform Act. Along with those topics, you will study incident types and how to handle them, the role of audits, and how evidence is handled if ever there was legal situation. Concentrate on these topics to prepare for the CISSP 2008 certification exam.

- Investigation and Evidence ......................... 835_001
- Physical Environmental Security .................... 835_002
- Physical Security Threats ............................ 835_003
- Facility Requirements ................................. 835_004
- Physical Security Controls ........................... 835_005
- Environmental Issues .................................. 835_006
- Physical Security ........................................ 835_007

**Computer Forensics and Electronic Discovery Series**

**Digital Forensics Incidents, Investigations, Threats, Assessments and Storage**

Course Number: 1204  
Time: 210 Minutes  
Number of Quizzes: 2 Quizzes

Start out with an introduction to computer forensics, which exposes you to computer forensic disclaimers, prerequisites, and the eDiscovery process. To solidify your understanding of the basics, you will review digital forensics incidents and laws resulting from them, explore the various types of investigations, be introduced to internal and external threats, and understand how to conduct a digital incident assessment. There is also a section dedicated to storage concepts specifically file storage and disk storage. For this section, you will cover details of disk-based operating systems, the relationship between FAT and NTFS, hard disk breakdown, slack space, file management, memory, and Quick View Plus. Prepare for the Mile 2 CDFE certification exam.

- Digital Forensics Incidents ......................... 1204_001
- Types of Investigations ............................... 1204_002
- Internal and External Threats ....................... 1204_003
- Understanding the Assessment ...................... 1204_004
- Assessment Equipment Needs ....................... 1204_005
- File Storage Concepts ............................... 1204_006
- Disk Storage Concepts ............................... 1204_007
Acquisition, Authentication, Duplication Demo, Assessments
Course Number: 1205
Time: 210 Minutes
Number of Quizzes: 2 Quizzes

Part of understanding computer forensics is having knowledge of acquisition, authentication, assessment, and digital evidence protocols. In the assessment section, you will learn about assessment rules and details as in how acquisition and authentication fit in, the basic steps to assessment, and data carving. Discussions covered in digital evidence protocols include levels of proof, types of data, residual data, free space, file slack, electronic mail, admissibility, and metadata. In preparation to become a Certified Digital Forensics Examiner, train in the essentials for this Mile 2 certification exam.

Acquisition and Authentication................. 1205_001
Acquisition Procedures/Analysis Tools ...... 1205_002
Duplication Demo .................................. 1205_003
Investigation Analysis and Disk Cleaning.... 1205_004
Assessment Rules.................................. 1205_005
Assessment Details............................... 1205_006
Digital Evidence Protocols...................... 1205_007

Evidence, Authenticity and Alteration, Forensic Theory, Examination Review, Deviation and Archiving
Course Number: 1206
Time: 210 Minutes
Number of Quizzes: 2 Quizzes

Delve into forensic theory as you study Locard’s Exchange Principle, recovery, classification, reconstruction, TimeStomp, and temporal aspects. Go through the execution process of tracking down the suspect using Web resources and cybertrails, conducting lab work and an examination review, and archiving the evidence. You will also study the role of evidence, different types of evidence, electronic files, the documentation process, using writings or recordings, and the best evidence rule. There’s also a section dedicated to authenticity and alteration where you will train in Layman’s analogies, the forensic report template and how to fill it out, and common assaults. Gain all the skills, knowledge, and techniques you need to be a Certified Digital Forensics Examiner, and prepare to sit for the certification exam.

The Role of Evidence............................. 1206_001
Authenticity and Alteration.................... 1206_002
Theoretical Background........................ 1206_003
Tracking Down the Suspect...................... 1206_004

Duplication, eDiscovery and Cryptography
Course Number: 1207
Time: 210 Minutes
Number of Quizzes: 2 Quizzes

Learn about duplication, the examination process, eDiscovery, and Cryptography. Duplication is a process that results in a copy of digital data using read-only technology and the RAID Reconstructor. There are many details covered in the duplication section. You will also look at searches, keywords, data carving, headers, and reports. In eDiscovery, you will go through an overview of eDiscovery, data retention, forms of eDiscovery, metadata usage, its architecture, and its importance. Certified Digital Forensics Examiner (CDFE) assesses your knowledge of all things concerning investigations on digital data. With the topics covered here, you will be preparing yourself for the CDFE exam.

Duplication Part I............................... 1207_001
Duplication Part II............................... 1207_002
Duplication Part III............................. 1207_003
The Examination............................... 1207_004
Searches, Keywords, and Reports............ 1207_005
Data Carving, Headers, and Reports........ 1207_006
eDiscovery........................................ 1207_007
Cryptography..................................... 1207_008

Passwords, Data Carving, ADS, User Files and Rootkits
Course Number: 1208
Time: 135 Minutes

Prepare for the Certified Digital Forensics Examiner certification exam. Start by taking a closer look at data carving as you observe the procedure behind it, the steps taken to prepare for data carving, how to add file date/time stamps and file signatures, and the role of the registry and its features. You will concentrate on passwords and password attacks and working with files specifically ADS and user files and recycled files. In the password section, you will study password cracking, the Password kit, Cain and Abel password cracking, Brute Force and Rainbow attack, and the cryptography to password cracking.

Passwords and Password Attacks............. 1208_001
Data Carving and Registry Overview......... 1208_002
Penetration Testing Foundations Series

Overview, Evolving Threats, Methodologies, Test Environments, Footprinting, & DNS

Course Number: 986
Time: 315 Minutes
Number of Quizzes: 2 Quizzes

This course has two purposes to introduce users to Penetration Testing Foundations and explore the concepts, tools, and techniques associated with information gathering. The introductory portion gives an overview of the CPTS exam and topics covered, describes different evolving threats and the methodologies used to address them; while, the exploratory portion addresses the different access types and how to gather information across various platforms particularly in DNS and routing. Other topics that deal are connected to information gathering are instructions in configuring a testing environment and footprinting.

Pen. Testing Foundations ......................... 986_001
The Evolving Threat................................. 986_002
Methodologies and Keeping Informed........... 986_003
Configuring a Testing Environment .......... 986_004
Physical and Social Access ...................... 986_005
Digital Access/Footprinting ....................... 986_006
Google Hacking and Other Online Tools ....... 986_007
DNS and Routing Information Gathering ...... 986_008
More Footprinting Tools ......................... 986_009

Password Cracking, ADS, Steganography, UNIX/Linux, Remote Attacks, & Hacking an Ubuntu Server

Course Number: 988
Time: 315 Minutes
Number of Quizzes: 2 Quizzes

Gain an understanding of how to reduce security risks to their business. You will concentrate on cracking Windows passwords; utilizing Event Logs, encryption, and smart cards; hacking into Ubuntu Server; and the role of ADS and steganography. Additionally, you will find descriptions on the different types of attacks that can be used specifically towards applications, Remote Access, and locally. Additionally, be introduced to UNIX/Linux File System, the different processes that can be run, and how to utilize and format accounts, groups, permissions, and logs. This course encompasses key concepts that are essential to Penetration Testing Foundations.

Cracking Windows Passwords ...................... 988_001
Event Logs, Encryption, and Smart Cards .... 988_002
ADS and Steganography .......................... 988_003
Anonymous Attacking Applications .......... 988_004
UNIX/Linux File System and Processes ...... 988_005
Accounts, Groups, Permissions, and Logs .... 988_006
Remote Access Attacks ........................... 988_007
Local Attacks and Rootkits ...................... 988_008
Hacking an Ubuntu Server ....................... 988_009

Port Scanning, Nmap, Banner Grabbing, DNS Enumeration, SNMP & AD Enumeration, and Null Sessions

Course Number: 987
Time: 240 Minutes
Number of Quizzes: 3 Quizzes

In this video training, users will learn about enumeration and scanning, which are two key elements of penetration testing. You will begin with the scanning discussion by looking at the results of scanning, and the different active reconnaissance tools used. You will also study the role of Nmap and other services offered for reconnaissance purposes as in TCP Connect scans, UDP scans, and IronGeek. For enumeration, the topics covered include null sessions, and DNS, SNMP, and AD enumerations.

Port Scanning and Dealing with Results .... 987_001
Nmap and Its Many Uses ......................... 987_002
Active Reconnaissance at Work ............... 987_003
Other Active Reconnaissance Tools .......... 987_004
Banner Grabbing and DNS Enumeration ...... 987_005
SNMP and AD Enumeration ..................... 987_006
Null Sessions ....................................... 987_007
Penetration Testing Websites and Databases Series

**SQL Injection, Direct Attacks and Protection**

Course Number: 1350  
Time: 105 Minutes  
Number of Quizzes: 1 Quiz

Ensure that you have a solid understanding of SQL injection and how to protect against direct attacks through this training. You are provided with demonstrations of an SQL injection attack and details on the basics of SQL injection, which covers the impacts of SQL injection, how to use SQL injection, and the role of extended stored procedures. In the direct attacks section, you will find descriptions of attacks to database servers and hacking tools, descriptions on how sensitive information is obtained and on how to find and fix SQL injections. Prepare for the CPTEngineer certification exam.

The Essence of SQL Injection .......................... 1350_001  
Direct Attacks and Protection ......................... 1350_002  
SQL Injection in Action ............................. 1350_003

**Attack Methods and Tools of the Trade**

Course Number: 1351  
Time: 135 Minutes  
Number of Quizzes: 2 Quizzes

Protect against attacks and threats as you learn about common attacks and the tools of the trade used to defend against attack. In looking at common attacks, you will concentrate on the techniques, tools, and concepts associated with them, as well as look at illustrations of common attacks such as unvalidated input, unicode, cross-site scripting, and vertical privilege escalation. Common attacks topics include common Web app threats, penetration methodologies, URL mappings to Web application systems, and query strings. Some of the tools you’ll observe are the N-Stalker, HTTrack, Wikto, Acunetix, and Samurai Web testing. The details covered in this course will help prepare you for the CPTEngineer certification exam, while increasing your knowledge on securing websites.

Attack Methods ......................................... 1351_001  
Most Common Attacks Illustrated ............... 1351_002  
Tools of the Trade Part I ............................ 1351_003  
Tools of the Trade Part II ........................... 1351_004

Penetration Testing Websites and Databases (Consolidated)

Course Number: 259  
Time: 165 Minutes  
Number of Quizzes: 5 Quizzes

Penetration Testing Websites and Databases is one of the five LearnSmart courses geared toward preparing you for the CPTEngineer Certification Exam. IT security training expert Duane Anderson, who has worked in the IT security training field for over two decades, teaches you about SQL Injections, N-Stalker, NTO Spider and other Web assessment tools. Duane illustrates how attackers use certain techniques to gather sensitive information.

The Essence of SQL Injection .......................... 259_001  
Direct Attacks and Protection ......................... 259_002  
SQL Injection in Action ............................. 259_003  
Attack Methods ....................................... 259_004  
Most Common Attacks Illustrated ............... 259_005  
Tools of the Trade Part I ............................ 259_006  
Tools of the Trade Part II ........................... 259_007

Penetration Testing Wired and Wireless (Consolidated)

Course Number: 258  
Time: 210 Minutes  
Number of Quizzes: 5 Quizzes

Discover the methods attackers use to gather sensitive encrypted data from video course instructor and security expert Duane Anderson. Duane presents his industry knowledge about the WEP and WPA Wireless attack process, how to master WarDriving and auditing tools and how to implement and configure a wireless intrusion detection system. The Pen Testing Wired and Wireless course is one of five in a series from LearnSmart that will equip you with all the needed skills to pass the CPTEngineer Certification Exam.

Sniffers ...................................................... 258_001  
ARP Poisoning and Sniffing ......................... 258_002  
DNS Spoofing and Breaking SSL ...................... 258_003  
Evading Firewalls and IDS/IPS ....................... 258_004  
Wireless Technologies ................................ 258_005  
War Driving and Auditing Tools ..................... 258_006  
Breaking WEP and WPA ............................. 258_007  
Tools in Action ....................................... 258_008  
Other Tools and New Age Protection ............. 258_009
Penetration Testing
Wired and Wireless

Sniffers, ARP Poisoning, DNS Spoofing, Breaking SSL, Evading Firewalls and IDS/IPS and Wireless Technologies

Course Number: 1353
Time: 180 Minutes
Number of Quizzes: 2 Quizzes

Prepare for the CPTEngineer certification exam as you study sniffing, ARP poisoning, DNS spoofing, and descriptions of wireless technologies. The topics covered within sniffing include packet sniffing, Wireshark, following the TCP stream, Packetizer, and active sniffing methods. Building on this knowledge, you will then explore the relationship between ARP poisoning and sniffing as you look at switch table flooding, ARP normal operation, countermeasures to ARP poisoning, ettercap, and dsniff suite. The DNS spoofing discussion includes an overview of DNS spoofing, breaking SSL traffic, a demonstration of Cain & Abel, testing on different sites and mail services, and taking a look at ettercap in BackTrack and session hijacking. In addition to these topics, you will also find a section describing evasive techniques, intercepting VoIP and RDP, and firewall capabilities.

Sniffers .................................................. 1353_001
ARP Poisoning and Sniffing ............... 1353_002
DNS Spoofing and Breaking SSL.......... 1353_003
Evading Firewalls and IDS/IPS .......... 1353_004
Wireless Technologies ...................... 1353_005

Penetration Vulnerabilities Uncovered Series

Vulnerability Assessments, Vulnerability Assessment Tools and Results

Course Number: 1355
Time: 105 Minutes
Number of Quizzes: 1 Quiz

A network must be guarded against vulnerabilities. To equip yourself to address these vulnerabilities, you have to be knowledgeable of them. So learn about the vulnerability assessments that you can run to identify network service and network hardware vulnerabilities, and assessments for security alerts. You will also find demonstrations of vulnerability assessment tools like Nessus, QualysGuard, the Microsoft Security Assessment tool, and Retina. The remainder of the course is spent looking at demonstrations of vulnerability assessments at work to add networks and policies using Nessus, to execute SAINT functions, to product full reports, to deploy updates, and to initiate a NULL session. These topics will help you in understanding the basics of vulnerability assessments, as well as prepare you for the CPTEngineer certification exam.

Vulnerability Assessments ...................... 1355_001
VA Tools and Results ............................. 1355_002
Vulnerability Assessments at Work ......... 1355_003

Malware Distribution, Capabilities and Countermeasures in Penetration Testing

Course Number: 1356
Time: 135 Minutes
Number of Quizzes: 1 Quiz

Explore the different vulnerabilities that are brought on by malware. In this training, you will learn about its capabilities, components, and about appropriate countermeasures. You’ll also take a historical look at malware and the tools used to respond to countermeasures. Some of the tools presented on include Gargoyle Investigator, Spy Sweeper, file protection software, and hardware-based detectors. The remaining topics on malware encompass malware in penetration testing, which instructs you on how to pivot an attack, the uses of Netcat, banner grabbing, uploading a file, DCOM Exploit, ways to test a connection, the process of transferring files via Netcat, and how to verify the
Penetration Vulnerabilities Uncovered (Consolidated)

The training course is based on the five key elements of penetration testing: information, gathering, scanning, enumeration, exploration and reporting. Security expert Duane Anderson, explains how to properly evaluate system and network vulnerabilities. Acquire the skills necessary to prevent malware attacks and see how to implement effective tools for tracking security alerts. This LearnSmart course is one five that will prepare you for the CPTEngineer Certification Exam (formerly known as CPTS). Interactive testing accompanies your video training in order to evaluate your understanding of the topics covered before you take the actual exam.

- Vulnerability Assessments.................260_001
- VA Tools and Results.......................260_002
- Vulnerability Assessments at Work........260_003
- Malware and Its Many Uses..................260_004
- Historical Look at Malware.................260_005
- Malware Countermeasures...................260_006
- Malware in Pen. Testing.....................260_007

Audio Editing in Videos & Finalizing the Project

If you're looking to build a solid foundation as a videographer or the seasoned professional looking to brush up on their video editing skills, this is the perfect course for you. You will see the after filming process of audio editing and the steps to finalizing a project. In the audio editing section, you will learn about changing moods through music, making J and L cuts, how to insert a background track, and the process of mixing tracks with transitions. You will also go through three lab scenarios focused on creating a slideshow, creating an interview, and creating an action sequence.

- Post-Production: Audio Editing................804_001
- Post-Production: Finalizing the Project......805_002
- Lab 1: Creating a Slideshow..................805_003
- Lab 2: Creating an Interview..................805_004
- Lab 3: Creating an Action Sequence...........805_005

Video Production 101 Series

Video Production 101 is a course designed to serve as an introduction to digital video production. Focus on planning the video shoot where you will go from writing the script to collecting the equipment. In preproduction, you will cover brainstorming project conceptualization, writing the script, storyboarding, and setting up the shot list and the schedule. Using a shot list, a schedule, budget, and a storyboard, you are bringing order to your video project, and ensuring that you are properly prepared to begin shooting. After you have a plan, you need to make sure you have the appropriate equipment. For the discussion on

Video Production 101 Series

- Video Editing 101 Series
  - File Management, Creating Rough Cuts & Effects in Videos
  - Audio Editing in Videos & Finalizing the Project
  - Video Production 101 Series
  - Script Writing, Storyboarding, & Equipment in Video Production

Video Production 101 Series

Video Production 101 is a course designed to serve as an introduction to digital video production. Focus on planning the video shoot where you will go from writing the script to collecting the equipment. In preproduction, you will cover brainstorming project conceptualization, writing the script, storyboarding, and setting up the shot list and the schedule. Using a shot list, a schedule, budget, and a storyboard, you are bringing order to your video project, and ensuring that you are properly prepared to begin shooting. After you have a plan, you need to make sure you have the appropriate equipment. For the discussion on
production equipment, you will explore different camera features and types, types of lighting, video and audio cables, and microphone quality.

- Preproduction: Concept 806_001
- Preproduction: Script Writing 806_002
- Preproduction: Storyboarding 806_003
- Preproduction: Shot List and Schedule 806_004
- Production Equipment: Cameras 806_005
- Production Equipment: Lighting 806_006
- Production Equipment: Microphones 806_007
- Production Equipment: Cabling 806_008

Camera Operation, Lighting, Audio & Crew in Video Production

Course Number: 807
Time: 105 Minutes

Ambitious users will gain an understanding of Adobe Story and OnLocation to script and storyboard their projects. Delve into the actual shooting of the video, reviewing camera operation, and other on set procedures and requirements. You will go through details on camera movements like panning, tilting, zooming, and psychological impact; as well as other shooting fundamentals and lighting principles. There is a section dedicated to audio where you will learn audio basics, the difference between natural and ambient sound, the use of silence, and how to monitor sounds during production.

- Production: Camera Operation 807_001
- Production: Camera Movement 807_002
- Production: Shooting Fundamentals 807_003
- Production: Lighting Principles 807_004
- Production: Audio 807_005
- Production Crew 807_006

VMWare

Virtual Infrastructure Administrator (VCP-310) Series

Virtualization, VMware Products, ESX, Troubleshooting Installations, & Virtual Networking for the Virtual Infrastructure Administrator

Course Number: 1083
Time: 225 Minutes

You will find this video instruction to be an invaluable learning aid that will help you to pass the VMWare Certified Professional Exam VCP-310. Start with an introduction to virtual administration, virtualization, and VMware products. From there, you will go through explanations on the role of ESX discussing ESX deployment and installation. The next topics covered are virtual networking and troubleshooting installations. Under virtual networking, you will learn about virtual networks and their components, technologies associated with them, and vSwitch properties. There is a large amount of information presented concerning virtualization, which will aid you in your exam preparation.

- Virtualization Overview 1083_001
- VMware Products 1083_002
- ESX Deployment 1083_003
- Installing ESX 1083_004
- Troubleshooting Installations 1083_005
- Virtual Networking 1083_006

Storage Area Networks, VMFS, VirtualCenter, Virtual Machines, & VMware Security for the Virtual Infrastructure

Course Number: 1084
Time: 195 Minutes

In this video training, you are taught about storage, management, migration, and security in a virtual environment. In the storage section of the course, attention is primarily given to storage area networks and VMFS datastores. At the center of virtualization management is the VirtualCenter. You will find descriptions on how to install the VirtualCenter, the processes implemented to manage virtual machines through it, and how to migrate virtual machines. There is also time dedicated to
explaining how security works on VMWare through the use of permissions, roles, and users. Upon completion of this course, you will be further prepared to pass the VMWare Certified Professional Exam VCP-310.

Storage Area Networks .......................... 1084_001
VMFS Datastores ................................ 1084_002
VirtualCenter Installation ...................... 1084_003
VirtualCenter Management .................... 1084_004
Managing Virtual Machines ................. 1084_005
Migrating Virtual Machines .................. 1084_006
VMware Security ............................... 1084_007

Web Access Security, Optimization, DRS, High Availability, Monitoring, Backup, & Restoration for the Virtual Infrastructure Administrator

Course Number: 1085
Time: 225 Minutes

Train in Web access security, performance optimization and monitoring, and backup and restoration on virtualized machines. You will discover the difference performance tools used, how high availability factors into performance optimization, and what different alarms and triggers indicate about the machine’s performance. In discussing backup and restoration, you will gain insight on the available backup options, what to do with backup files, and procedures executed for machine restoration. This course is an invaluable learning aid that will help prepare you to pass the VMWare Certified Professional Exam VCP-310.

Web Access Security ............................. 1085_001
Performance Tools ............................. 1085_002
Performance Optimization ................... 1085_003
DRS and High Availability ..................... 1085_004
Monitoring the Environment .................. 1085_005
Backup and Restoration ........................ 1085_006

Virtual Infrastructure Administrator (VCP-310) (Consolidated)

Course Number: 74
Time: 375 Minutes
Number of Quizzes: 1 Quiz

Tom Carpenter has delivered training programs to more than 27,000 professionals since 1997. During the video instruction for this course, Tom shares his technical knowledge and hands-on experience with LearnSmart users to produce an invaluable learning aid that will help users to pass the VMWare Certified Professional Exam VCP-310. Students are taught migration, load balancing, high availability and performance optimization, along with when to implement various VMware technologies and more.

Introduction ....................................... 74_001
Virtualization Overview ....................... 74_002
VMware Products ............................... 74_003
ESX Deployment .................................. 74_004
Installing ESX .................................... 74_005
Troubleshooting Installations ................. 74_006
Virtual Networking ............................. 74_007
Storage Area Networks ................. 74_008
VMFS Datastores ............................... 74_009
VirtualCenter Installation .................... 74_010
VirtualCenter Management .................. 74_011
Managing Virtual Machines ............... 74_012
Migrating Virtual Machines ................. 74_013
VMware Security ............................... 74_014
Web Access Security ......................... 74_015
Performance Tools ............................. 74_016
Performance Optimization .................. 74_017
DRS and High Availability .................... 74_018
Monitoring the Environment ................ 74_019
Backup and Restoration ..................... 74_020

Web Development

JavaScript Specialist (1D0-635) Series

Introduction, Code Structure, Variables, Identifiers and Functions

Course Number: 1264
Time: 150 Minutes
Number of Quizzes: 1 Quiz

Become a JavaScript Specialist. Start out by going through the history of JavaScript, which explains the difference between JavaScript and Java, how JavaScript works with Microsoft, its characteristics, write method, and how to code JavaScript. Continue the discussion of JavaScript as you study write method, alert method, variables, and code structure based on ECMA standards. In the variables and identifiers section, you will look at naming rules, numerical values, combining variables and declarations, different arrays, and concatenating strings. Wrap up your
training with functions where you’ll learn how to declare and call a function, how to pass arguments to a function, about function return values, and about built-in functions. Overall, you will be preparing yourself to sit for the 1D0-635 exam.

Understanding Code Structure .................... 1264_001
Variables and Identifiers ......................... 1264_002
Working with Functions ......................... 1264_003

**Controlling Program Flow, JavaScript Objects and Form Objects**

Course Number: 1265
Time: 150 Minutes
Number of Quizzes: 1 Quiz

The three topics that are focused on include program flows, the JavaScript object model, and objects. The Program Flow section will show you how to use If statements, comparison operators, and If Else statements; how to code compound conditions, code for loops, code while loops, and code do while loops; and the ways to loop through arrays. For the JavaScript object model, learn its components and methods. Then you will focus on two types of objects: form objects and JavaScript objects. In the form objects section, you will go over HTML form elements, accessing particular objects, working with multiple selections, and form validation. Take your time when going through these topics to aid in your preparation for the 1D0-635 exam.

Controlling Program Flow ...................... 1265_001
The JavaScript Object Model .................... 1265_002
More with JavaScript Objects ................. 1265_003
Form Objects ................................... 1265_004

**Cookies, Javascript Security, Frames, AJAX, JavaScript Libraries and Custom Objects**

Course Number: 1266
Time: 180 Minutes
Number of Quizzes: 3 Quizzes

Begin preparing for the 1D0-635 certification exam, as you concentrate on one of the exam objectives - address JavaScript security issues involving browsers and cookies. You will focus on cookies, cross-site scripting, cookie session hijacking, browser history exploitation, and security tips. You will also train in how to work with frames in JavaScript and work with AJAX. The AJAX section describes content elements, the innerHTML property, background server communication, XMLHttpRequest object, debugging with Firefox tools, and review AJAX code. The last portion of the course is spent discussing JavaScript libraries and custom libraries. Study these topics to prepare for the Web development certification exam. Gain your JavaScript Specialist by sitting for the 1D0-635 exam.

Cookies and JavaScript Security ............... 1266_001
Working with Frames in JavaScript ............ 1266_002
Working with AJAX ............................ 1266_003
JavaScript Libraries .......................... 1266_004
Custom Objects ............................... 1266_005

**JavaScript Specialist (1D0-635) (Consolidated)**

Course Number: 356
Time: 420 Minutes
Number of Quizzes: 8 Quizzes

Web developer and designer, Mark Lassoff, illustrates all of the fundamental concepts of programming in JavaScript language. Topics covered include program flow control, form validation, image animation, frame targeting, and cookie creation. In this course, you will learn JavaScript code development, including writing programs and scripts for the JavaScript object model. Implementation examples consisting of authoring and scripting Web content creation, Web management and digital media tools are also taught. Conveniently available through the LearnSmart Cloud Classroom, this course is ideal for those wishing to pass the CTW JavaScript Specialist (1D0-635) exam.

Introduction .................................. 356_001
Understanding Code Structure ............... 356_002
Variables and Identifiers ..................... 356_003
Working with Functions ..................... 356_004
Controlling Program Flow ................... 356_005
The JavaScript Object Model ................ 356_006
More with JavaScript Objects ............... 356_007
Form Objects .................................. 356_008
Cookies and JavaScript Security .......... 356_009
Working with Frames in JavaScript .......... 356_010
Working with AJAX .......................... 356_011
JavaScript Libraries ......................... 356_012
Custom Objects ............................. 356_013
### HTML 5.0 Series

**Introduction to HTML 5, Text Markup, & Forms**

- Course Number: 808
- Time: 135 Minutes
- Number of Labs: 3 Labs

This video training will aid in deepening your understanding of the latest HTML tags and attributes. You are provided with an overview of HTML 5, how to use text markups, and how to add, create, and remove forms. In the text markup section, you will study HTML and HTML5 by looking at the basic document structure, how to create paragraph and heading tags, article tags, section and summary tags, and more. HTML5 makes creating Web form components easy. See how to input radio buttons, check boxes, required fields, lists, and text.

- Introduction to HTML 5......................... 808_001
- HTML 5 Text Markup.............................. 808_002
- HTML 5 Text Markup.............................. 808_003
- HTML 5 Forms .................................... 808_004

**Audio/Video, Canvas, Communication APIs, Webworkers, Geolocation & Storage in HTML 5**

- Course Number: 809
- Time: 165 Minutes
- Number of Quizzes: 3 Quizzes
- Number of Labs: 7 Labs

HTML5 Fundamentals will teach you all the syntax and principles behind one of the most innovative languages used for Web page creation. HTML5 has a range of capabilities to create Web pages. Contents of this course cover new audio and video tags, communication APIs, along with how to implement data storage. There is also time spent looking at graphical tools, like Canvas and Scalable Vector Graphics, to create graphics and draw. Study the functionality of geolocation and Web workers, which is a JavaScript running in the background of a Web page.

- HTML 5 Audio and Video......................... 809_001
- HTML 5 Canvas and SVG.......................... 809_002
- HTML 5 ............................................ 809_003
- HTML 5 Web Workers............................. 809_004
- HTML 5 Geolocation.............................. 809_005
- HTML 5 Data Storage............................ 809_006

### Oracle Certified Associate (Java) (CX-310-019) Series

**Java Programs, Variables, References, Branching, Loops, Arrays and Functions**

- Course Number: 1347
- Time: 105 Minutes
- Number of Quizzes: 2 Quizzes

Start out with the basics of programming by learning how to create and compile Java programs, to implement branching and loops, and to work with arrays, references and variables, and functions. The discussions on creating and compiling Java programs include details on the development tools needed, how to create classes, how to use streams, the command line code execution, using a package, and the process of writing a simple Java program. For the branching and loops section, you learn about branching with IF statements, creating compound logical statements, how to switch case break statements, different types of loops, and how to incorporate break and continue statements. Understanding these concepts will aid in preparing you for the Oracle Certified Associate, Java SE 5/SE 6 certification exam.

- Creating and Compiling Java Programs........ 1347_001
- Working with Variables and References....... 1347_002
- Branching and Loops......................... 1347_003
- Working with Arrays............................ 1347_004
- Working with Functions....................... 1347_005

**Object-Oriented Programming, Custom Classes, Subclassing, Interfaces and Abstract Classes**

- Course Number: 1348
- Time: 90 Minutes
- Number of Quizzes: 1 Quiz

The Oracle Certified Associate, Java SE 5/SE 6 certification exam is designed to assess your knowledge of object-oriented concepts and working with Java to design and maintain applications. Ensure that you’re prepared for object-oriented questions by studying the basics, which covers object-oriented programming, class attributes and behaviors, details on the Concatenation Operator, and how to work with the String and the StringBuffer class. Continuing the discussion of classes, you will look at custom classes, subclassing, interfaces, and abstract classes. All in all, training in these topics will increase your ability to develop applications using Java.

- Object-Oriented Programming Basics .......... 1348_001
Standard Courses

Creating Custom Classes......................... 1348_002
Understanding Subclassing...................... 1348_003
Interfaces and Abstract Classes............... 1348_004

UML, Java Integration Technologies, HTML, JavaScript, Java 2 Micro Edition, Applets, GUI Interfaces and Java Server Technologies
Course Number: 1349
Time: 135 Minutes
Number of Quizzes: 1 Quiz

Study programming languages particularly unified modeling language (UML) and JavaScript. Explore JavaScript as you look at its relationship to HTML, compare their structures, identify their advantages and disadvantages, and go through a demonstration on coding using HTML and JavaScript. From there, you’ll shift your attention to applets, GUI interfaces, and Java server and Java integration technologies. In the section on Java integration technologies, you will learn about remote method invocation, TMI interfaces and classes, remote object implementation, Java database connectivity and code, Java messaging service, and messaging process diagrams. Overall, these topics will prepare you for the Oracle Certified Associate, Java SE 5/SE 6 certification exam.

Understanding UML.............................. 1349_001
Java Integration Technologies................. 1349_002
HTML and JavaScript............................ 1349_003
Java 2 Micro Edition............................ 1349_004
Applets and GUI Interfaces.................... 1349_005
Java Server Technologies...................... 1349_006

Applications, Finalizing Documents and Presentations
Course Number: 1251
Time: 285 Minutes

With the computing basics covered, you can now begin solidifying your understanding of applications and file management options. The majority of this training focuses on applications by studying application categories, Microsoft Office, databases, application software types, application window elements, navigating documents, managing application options, and application similarities. You will also specifically look at Word, Excel, and PowerPoint, as word processing, spreadsheet formatting, and presentation creation applications, respectively. These topics provide you with detailed information on these computing features. Learn all the knowledge, skills, and techniques associated with computing to prepare for the IC3 GS3 certification exam.

Applications..................................... 1251_001
Application Features and Functions.......... 1251_002
Common File Management Options........... 1251_003
Word Basics....................................... 1251_004
Columns, Tables, and Breaks................. 1251_005
Finalizing Documents........................... 1251_006
Creating and Formatting Spreadsheets....... 1251_007
Manipulating Data............................... 1251_008
Presentations...................................... 1251_009

Desktop

IC3 - Key Applications, Living Online, Computing Fundamentals (GS3)

Computer Basics and Managing Operating Systems
Course Number: 1250
Time: 225 Minutes

GS3 encompasses a broad range of computing information. In preparation for this exam, learn computer basics, performance and maintenance procedures, and about operating system software. In the computer basics section, you will cover how to get certified, types of computers, and the different computer components. You will also spend time familiarizing yourself with Microsoft Operating System, Windows customizations, and the Apple Operating System. The Microsoft Operating System section provides you with a tour of Windows Vista, the different views and applications, demonstrations on how to organize folders and files, the uses of the Recycle Bin, details on the Control Panel, an overview of power/sleep settings, and an explanation of how to install and uninstall applications. Let your IC3 exam preparation begin.

Computer Basics............................... 1250_001
Performance and Maintenance................. 1250_002
OS/Software Introduction...................... 1250_003
Microsoft Operating System.................. 1250_004
Customizing Windows......................... 1250_005
Managing Your Operating System............. 1250_006
Apple Operating System....................... 1250_007
Collaborating, Working with E-Mail and Using the Web
Course Number: 1252
Time: 195 Minutes

Focus on the Living Online exam objective as you study networks and the Internet, communication and collaboration, email, Web use and Web sites, and the risks and benefits. In the Web usage section, you will gain an understanding of Internet Explorer, some basic navigation tips, how to set your home page, how to add Bookmarks and Favorites, how to manage Internet options, blogs and RSS feeds, Web terminology, Web services, domain names, Web ethics, how to troubleshoot Web problems, and work with Web sites. Use these discussions and topics to accumulate knowledge applied and techniques used in computing to prepare for the IS3 Global Standard 3 certification exam.

Networks and the Internet ....................... 1252_001
Communicate and Collaborate .................. 1252_002
Working with E-mail .............................. 1252_003
Using the Web .................................... 1252_004
Understanding Web Sites ........................ 1252_005
Risks and Benefits ............................... 1252_006

Learning Windows 7 Series
Introduction, Navigation, Managing Files and Folders and Personalizing in Windows 7
Course Number: 1269
Time: 105 Minutes
Number of Quizzes: 1 Quiz

As an addition to the Microsoft family of products, the Windows 7 operating system has both familiar and original elements to it. Learn to distinguish between the different editions of Windows 7, to use the gadgets and the Windows 7 interface, and to navigate windows and folders with the help of hot keys and jump lists. Additionally, you will go through demonstrations on how to manage file and folders using properties, and how to personalize your displays by modifying desktop themes, adding a desktop background or sound, setting a screensaver, and establishing advanced settings. Gain knowledge, tips, and skills to use Windows 7 to its fullest potential in your environment.

Exploring Windows 7............................ 1269_001
Navigating Windows and Folders .............. 1269_002
Managing Files and Folders .................... 1269_003
Personalizing Windows ......................... 1269_004

System Settings, Control Panel, Network Connections, Updates and Hardware Devices in Windows 7
Course Number: 1271
Time: 150 Minutes
Number of Quizzes: 2 Quizzes

Take a look at the user backend to Windows 7 as you explore system settings, the Control Panel, updating the system and setting up hardware devices. Then shift your attention to connectivity where you’ll study network connections, connecting to the Web, and ways to personalize Internet Explorer 8. In the network connections section, you will see how to connect to a network, add a network connection, set a network location, create a homegroup, configure homegroup settings, leave a homegroup, share settings, and implement adaptor/connector settings. Windows 7 meets a diverse set of system needs. Explore the details covered on this operating system to assist you in effectively using Windows 7.

System Settings .................................. 1271_001
The Control Panel .................................. 1271_002
Network Connections ............................ 1271_003
Connecting to the Web ........................... 1271_004
Personalizing Internet Explorer 8 ................ 1271_005
Updating the System ............................ 1271_006
Set Up Hardware Devices ....................... 1271_007

Learning Windows Vista Series
Getting Started, Navigating, & Organizing Files in Windows Vista
Course Number: 1109
Time: 135 Minutes
Number of Quizzes: 1 Quiz

You will learn and apply the skills for getting started in Windows Vista. You can see how to navigate the interface of and use the organization features of Windows Vista. In looking at navigation and organization features, this course looks at the capabilities of the Start menu, how to alter the desktop, ways to establish a folder structure, and how to utilize the command bar to view files. With an understanding of these features, you will be able to operate efficiently within Windows Vista.

Getting Started ................................. 1109_001
Vista Interface .................................... 1109_002
Vista Desktop ................................. 1109_003
Start Menu ..................................... 1109_004
Navigation ...................................... 1109_005
Organizing and Viewing Files ................. 1109_006
IE7, Viewing and Printing Web Pages, & Windows Vista Features

Course Number: 1110
Time: 150 Minutes
Number of Quizzes: 3 Quizzes

You will dive into an in-depth exploration of Internet options in the Windows Vista system. You are provided with the basics for understanding the different views in Windows Vista, how to print, and the role of Internet Explorer 7. Additionally, you will take a close look at the interface, components and features, which include creating communities and contacts, of Windows Mail. This course wraps up with a concentration on the collaborative elements available through Windows Calendar and Windows Meeting Space applications on Windows Vista.

Internet Explorer 7 ........................................... 1110_001
Viewing and Printing Web Pages .......................... 1110_002
IE7 Security .................................................. 1110_003
Windows Mail ................................................ 1110_004
Microsoft Communities .................................... 1110_005
Windows Contacts .......................................... 1110_006
Windows Calendar .......................................... 1110_007
Windows Meeting Space .................................. 1110_008

Multimedia, Management, & Networking in Windows Vista

Course Number: 1111
Time: 135 Minutes
Number of Quizzes: 2 Quizzes

Explore the updated multimedia, management, and networking features of Windows Vista. Some of the multimedia features explored include Windows Media Center and Windows Movie Maker. Along with the multimedia features are the networking and management features, which aid in managing users, software, network communication, and hardware. You will also spend time looking at the additional configurable options for making Windows Vista more accessible using the on-screen keyboard and speech commands.

Multimedia .................................................. 1111_001
Managing Software ........................................ 1111_002
Managing Hardware ...................................... 1111_003
Ease of Access ............................................. 1111_004
Managing Users ........................................... 1111_005
Networking .................................................. 1111_006

Learning

Windows XP Series

Navigation, Files and Folders, Organization, Settings, Help and Support in Windows XP

Course Number: 1272
Time: 210 Minutes
Number of Quizzes: 2 Quizzes

Preceding Windows Vista is Windows XP. This operating system is faster, user friendly, and stable. It has system requirements associated with it, requires activation and registration, includes a Window desktop with buttons and menus, and other navigation options. In this training, you learn how to work with programs, files and folders, shortcuts, taskbar options, enhanced settings, and help and support. In the files and folders section, you will look at grouping concepts, folder structure, file structure, how to organize files, and find files. Learn about the features, menus, and benefits of Windows XP.

What is Windows XP? ....................................... 1272_001
Working with Windows .................................... 1272_002
Working with Programs ................................... 1272_003
Files and Folders .......................................... 1272_004
Organizing Workspace .................................... 1272_005
Enhanced Setting .......................................... 1272_006
Help and Support .......................................... 1272_007

Themes, Printers, Hardware, Browser

Customization, Email, Network Basics and Users in Windows XP

Course Number: 1273
Time: 180 Minutes
Number of Quizzes: 2 Quizzes

Immerse yourself in the Windows XP system where you can alter appearance and themes, configure printers and hardware, set up connections, and use the Windows Messenger for email. To use printers, they must be added and configured. The concepts included in networking are encompassed within the network basics section, where you’ll study network types, how to use the setup wizard, network places, and the steps to sharing a folder. There’s also a section dedicated to the Internet, which describes to you how to set up a connection, access the Internet, work within the Explorer toolbar, and navigate. Using XP in your office or home will aid you increasing your productivity.

Themes ....................................................... 1273_001
Printers and Hardware ................................... 1273_002
Photos, Windows Media Player, Windows Movie Maker, Maintenance and Troubleshooting in Windows XP

Course Number: 1274
Time: 150 Minutes
Number of Quizzes: 1 Quiz

Engage in some of the multimedia features offered in Windows XP. You will cover working with photos to email them, print them, set them as a background, create a photo album, create a screen saver, and use Internet pictures; while utilizing Windows Media Player and Windows Movie Maker to edit and create audio and videos. After those discussions, you will shift your attention to maintenance and troubleshooting. In the troubleshooting section, you will look at how to solve memory issues and optimize memory usage, address viruses, use the Device Manager, create restore points, and execute system restore. Explore the full range of what Windows XP can do to help you at home and in the office.

Working with Photos .................................. 1274_001
Windows Media Player ................................ 1274_002
Maintenance ........................................... 1274_003
Windows Movie Maker .............................. 1274_004
Troubleshooting ...................................... 1274_005

Sales Tax, Reconciliation, Tracking Time and Payroll in QuickBooks 2011

Course Number: 1366
Time: 150 Minutes
Number of Quizzes: 2 Quizzes
Number of Labs: 11 Labs

QuickBooks is a software that provides you with tools to assist in managing all aspects of your small business accounting needs. To familiarize you with QuickBooks, go through the details of this software particularly the different versions and editions, how to navigate, the backup options, and how to restore a data file. Start out by exploring how to convert previous version data to 2011, considerations for creating a new company, and how to customize QuickBooks. In the customizing QuickBooks section, you will find explanations on how to determine the release number, the steps to updating Quickbooks, the difference between single-user and multi-user mode, password considerations, and how to set up preferences. This training also walks you through setting up QuickBooks, and introduces you to list management.

Getting Started ..................................... 1364_001
QuickBooks Setup ................................. 1364_002
General Product Knowledge .................. 1364_003
Customizing QuickBooks ....................... 1364_004
List Management ................................. 1364_005

QuickBooks Setup .................................. 1366_001
Working with Items ......................... 1365_001
Working with Sales ....................... 1365_002
Working with Purchases ........................ 1365_003
Working with Inventory ....................... 1365_004
section, you will learn about payroll service types, setup considerations, schedules, how to use the payroll setup wizard, and how to include employee benefits. Build on this knowledge to track time and run a payroll. Additionally, there’s a section dedicated to reconciliation, where you’ll learn about the reconciliation process, marking checks and payments, and compile reconciliation reports. Deepen your understanding of QuickBooks to use it for all your accounting needs.

Working with Sales Tax ..................... 1366_001
Reconciliation .................................... 1366_002
Payroll ............................................. 1366_003
Payroll Setup Wizard ......................... 1366_004
Tracking Time/Running Payroll .......... 1366_005

Reports, Basic Accounting, Saving Time and Shortcuts in QuickBooks 2011
Course Number: 1367
Time: 90 Minutes
Number of Quizzes: 1 Quiz
Number of Labs: 5 Labs

This training concentrates on reports, basic accounting, and time savers for working in QuickBooks. The reports section includes considerations for reports in QuickBooks, the different report categories, instructions on how to use the Report Center, how to process multiple reports, and the processes behind customizing, filtering, and memorizing reports. After that, you find descriptions on basic accounting concepts such as the terminology, cash versus accrual, making journal entries, and setting a closing date. For the saving time section, you’ll learn about shortcuts and tips for working with multiple users and accounts, adding user access, creating custom fields, customizing invoices, and previewing changes. Discover all that QuickBooks has to offer for your small business needs.

Reports .................................................. 1367_001
Basic Accounting .............................. 1367_002
Saving Time and Shortcuts ............. 1367_003