

6417 – Update Applications Infrastructure Technology Skills to Windows Server 2008

Vendor Course Code: 6417

Course Length: 3 days

Overview: This three day instructor led course provides students with an understanding of Applications Infrastructure technologies in Windows Server 2008. This course is intended to allow individuals who already have experience with Applications Infrastructure technologies in Windows 2000 Server or Windows Server 2003 to upgrade their skills to Windows Server 2008.

Skills Gained: After completing this course, students will be able to:

- Configure and use Windows Server as an application server with new Server Roles.
- Use new features in IIS 7.0 Application Server, including the new modular configuration system.
- Manage Web Applications with IIS 7.0.
- Troubleshoot IIS 7.0-based Web servers with automatic failed request tracing and other included features and tools.
- Plan for Windows SharePoint Services 3.0 implementation in a variety of network environments.
- Configure and manage Windows SharePoint Services 3.0 from initial setup through troubleshooting and day-to-day operation.
- Use new features in Terminal Services and describe Terminal Services Licensing.
- Use and manage Terminal Services remote programs and gateways, including troubleshooting and performance optimisation.
- Configure disk storage in Windows Server 2008.

Key Topics: **Module 1: Server Roles and Initial Configuration Tasks**
This module introduces Application Server Roles, describing Application Server features in Windows Server and demonstrating initial configuration and Unix interoperability.

Lessons
Application Server Roles
Application Server Features
Implement a Volume Licensing Strategy using KMS and MAK

Lab :
Server Roles and Configuration Tasks
Perform Initial Configuration Tasks
Add Windows Features
After completing this module, students will be able to:

Identify and install application server roles that are integrated with Windows Server 2008.
Identify and install Windows application server features available with Windows Server 2008.
Implement Windows Activation 2.0.

Module 2: Overview of IIS 7.0 Application Server
This module introduces IIS 7.0 modular architecture, in which more than 40 features can be independently installed. It also demonstrates new scripting interface features and distributed configuration files.

Lessons
Review of IIS 6.0
Review SMTP in Windows Server 2008
Key Improvements in IIS 7.0
IIS 7.0 Configuration System
Adding the SMTP Feature

Lab : Introducing IIS 7.0
Adding the Web Server Role and Additional Services
Reviewing the IIS 7.0 Administration Interface
Add an ASP.NET Application
After completing this module, students will be able to:

Review key IIS 6.0 design elements.
Install and configure the SMTP feature.
Identify key improvements in IIS 7.0.
Describe the new IIS 7.0 configuration system.

Module 3: Managing Web Applications with IIS 7.0

This module covers several aspects of server management in IIS 7.0. IIS can be configured using the IIS Manager graphical user interface or using several configuration files. It also explores the `appcmd.exe` command line utility as it is used for server administration.

Lessons
Managing IIS 7.0
Using Hierarchical Configuration Settings
Delegating Configuration to Non-Administrator Users

Lab :
Managing Web Applications with IIS 7.0
Using IIS 7.0 Configuration Files to Control Delegation
Extending the User Interface with Custom Features
Controlling Delegation Using Locking
Using IIS 7.0 to Configure SSL
After completing this module, students will be able to:

Explain management approaches for IIS 7.0.
Use the IIS 7.0 configuration system.
Grant non-administrative users access to IIS 7.0 configuration settings.

Module 4: Troubleshooting Web Servers

This module describes and demonstrates IIS 7.0 features for troubleshooting, including Runtime Control and Status API, Automatic Failed Request Tracing, and Trace Events.

Lessons
Troubleshooting IIS 7.0
Using the Runtime Control and Status API
Using Automatic Failed Request Tracing
Adding Trace Events to Managed Modules

Lab :
Troubleshooting Web Servers
Tracing Failed Requests
Using RSCA to View Executing Requests
Using Managed APIs to Access RSCA Data
Using Trace Events in ASPX Pages
Adding Trace Events to Managed Modules
After completing this module, students will be able to:

Use IIS 7.0 troubleshooting features to gather troubleshooting information.
Use the Runtime Control and Status API.
Use Automatic Failed Request Tracing.
Add trace events to managed modules.

Module 5: Introduction to the Windows SharePoint Services 3.0 Platform

This module describes and demonstrates Windows SharePoint Service 3.0, including planning for implementation and performing a new installation.

Lessons
Overview of Windows SharePoint Services
Collaborative Technologies with WSS
Planning the WSS 3.0 Environment
Installing and Configuring WSS 3.0

Lab :
Introduction to the Windows SharePoint Services 3.0 Platform
Installing and Configuring the Central Administration Site
Creating a Site Connection
After completing this module, students will be able to:

Describe Windows SharePoint Services 3.0.
Describe document collaboration with Windows SharePoint Services 3.0.
Plan all components of a Windows SharePoint Services 3.0 Deployment.
Install and Configure Windows SharePoint Services 3.0.

Module 6: Configuring and Managing Windows SharePoint Services 3.0

This module describes and demonstrates how to configure and manage Windows SharePoint Services 3.0, including creating and configuring sites and managing sites and servers.

Lessons
Creating and Configuring Sites2
Managing Windows SharePoint Services 3.0

Lab :
Configuring and Managing Windows SharePoint Services 3.0
Starting the Windows SharePoint Services Search Service
Configuring Alternate Access Mappings
Managing Site Settings
Troubleshooting WSS 3.0 Server Performance Issues
After completing this module, students will be able to:

Create and configure WSS 3.0 sites.
Manage WSS 3.0 sites.

Module 7: Configuring Terminal Services

Terminal Services has been updated with Windows Server 2008, including changes to Terminal Services core. This module covers the new Terminal Services core functionality as well as Terminal Services Web Access and Terminal Services Licensing.

Lessons
Terminal Services Overview
Terminal Services Core Functionality
Terminal Services Web Access
Terminal Services Licensing

Lab :
Exploring Terminal Services
Installing Terminal Services
Remote Desktop Connection
Configure TS Web Access
After completing this module, students will be able to:

Describe how the components of Terminal Services work together.
Identify new Terminal Services core features.
Use Terminal Services Web Access.
Describe Terminal Services Licensing.

Module 8: Managing Terminal Services

With Windows Server 2008 Remote Programs are accessed remotely through Terminal Services Terminal Services Gateway can be used to help secure access to Remote Programs This module describes and demonstrates using Terminal Services management consoles and Event Viewer as well as using Terminal Services with Windows System Resource Manager to optimise performance.

Lessons
Terminal Services RemoteApp Programs
Terminal Services Gateway
Managing Terminal Services

Lab :
Managing Terminal Services

Using Terminal Services RemoteApp Programs
Configuring Terminal Services Gateway
Managing TS Remote Programs
Managing Terminal Server
Optimising Terminal Services Performance

After completing this module, students will be able to:

Use and manage Terminal Services RemoteApp programs.
Use and manage Terminal Services Gateway.
Optimise and monitor Terminal Services.

Module 9: Configuring Storage

One of the tasks that you perform when administering a server is managing disks. You will need to understand the Microsoft Windows Server 2008 tools that are available to set up and manage disks and disk drives. This understanding also allows users to employ advanced features, such as creating a mounted drive and importing a foreign disk.

This module covers these tasks and describes how to use the tools to manage and set up disks.

Lessons

Preparing Disks
Managing Disk Properties
Managing Mounted Drives
Converting Disks
Creating Volumes
Creating Fault-Tolerant Volumes

Lab :

Configuring Storage
Configure partitions and file systems
Configure Volumes

After completing this module, students will be able to:

Initialise and partition a disk.
View and update disk properties.
Manage mounted drives.
Convert a disk from basic to dynamic and from dynamic to basic.
Create volumes on a disk.
Create fault-tolerant volumes.

Target Audience:

This course is intended for IT Professionals experienced on the technologies included in Windows Server 2000 and Windows Server 2003, and who hold an MCSE or MCSA certification and/or equivalent knowledge

Prerequisites:

Before attending this course, students must have one or more of the following:

- On-the-job experience in planning, implementing, managing, or supporting Microsoft Windows Server 2000 or 2003, including Active Directory and Network Infrastructure.
- Working knowledge of networking, for example, TCP/IP and Domain Name System (DNS).
- Designed a Microsoft Windows Server 2003 Active Directory and Network Infrastructure.
- Designed Security for a Microsoft Windows Server 2003 Network.
- Installed, Configured, and Administered Microsoft Windows 2000, Windows XP Professional, or Microsoft Vista.