



Local Intelligence.
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Updating Your MCSE / MCSA Windows Server 2003 to Windows Server 2008

Course Length: 5 days (extended hours)

Course Code: MCTS

Course Description

This 5 day instructor-led course provides students with the knowledge and skills to work with Windows Infrastructure Services technology and Active Directory Services technology in Windows Server 2008. This course is intended to allow individuals who already have experience with Windows Infrastructure Services and Active Directory to upgrade their skills for Windows Server 2008. This course is based on an interim build of Windows Server 2008. It also provides experienced IT Professionals with an understanding of Web and Applications Platform Services technology. This bootcamp combines both Microsoft courses M6416 and M6417.

Course will run from 8:00am to 8:00pm.

Lunch will be provided on all five days.

One exam voucher will be included in this boot camp. You are welcome to take additional exams at the price of \$125 each.

For MCSEs on Windows Server 2003:

- Pass a SINGLE exam and earn the *THREE* Microsoft Certified Technology Specialist (MCTS) accreditations on Windows Server 2008.
- MCSEs on 2003 are allowed to take the three-in-one Technology Specialist Exam 70-649.

For MCSAs on WS 2003:

- Pass a SINGLE exam and earn *TWO* Microsoft Certified Technology Specialist (MCTS) accreditations on Windows Server 2008.
- MCSAs on 2003 are allowed to take the two-in-one Technology Specialist Exam 70-648.

Target Audience

This course is intended for IT Professionals experienced on the technologies included in Windows Server 2003 and who hold an MCSE on Windows Server 2003 or an MCSA on Windows Server 2003.

Prerequisites

Students must possess excellent server 2003 skills. The upgrade exam 70-649 or 70-648 require students to be either MCSE or MCSA 2003 certified.

Course Content

M6416

Course Content

Module 1: Installing and Configuring Windows Server 2008

This module explains how to install and configure Windows Server 2008. It also explores using Server Manager to work with roles, features, PowerShell and other aspects of server configuration like Automatic Updates.

- Server Manager Roles
- Windows Server 2008 Features
- Active Directory Improvements

Module 2: Windows Deployment Services

This module explains how to use benefits and components of Windows Deployment Services, including image capture and management.

- Introducing Windows Deployment Services
- WDS Components



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Module 3: Windows Server 2008 Server Core

This module explains how to use key functionality and benefits of a Server Core installation, including adding and configuring roles.

- Server Core Introduction
- Configuring and Managing Server Core

Module 4: Windows Backup

This module provides an overview of the new backup infrastructure in Windows Server 2008, including Volume Shadow Copy service, scheduled vs. manual backups, media, the Universal Disk Format (UDF), and restoring data.

- Backup Infrastructure
- Optical Media
- Restore Utilities

Module 5: Windows Server 2008 Updates to Networking

This module explains how to use new and improved networking features in Windows Server 2008, including server and domain isolation, IPv6, and DNS.

- Networking with Windows Server 2008
- New Networking Features
- DNS with Windows Server 2008
- Configuring Routing
- Configuring Wireless Settings in Server 2008

Module 6: Network Policies and Access Protection

This module explains how to use Network Access Protection (NAP) and related technologies to enforce security and client health policies.

- Network Policies Access Protection
- Enforcement Options
- Network Access Protection Scenarios
- Routing and Remote Access

Module 7: Hyper-V

This module explains how to use new capabilities and architecture in Hyper-V, including integrated management functions for physical and virtual environments.

- Introducing Hyper-V
- Configuring Hyper-V

Module 8: Planning for Windows Server 2008 Active Directory Services

This module explains how to install and configure the Active Directory Domain Services (AD DS) server role and administering it with Server Manager. It also explores planning for deploying an Active Directory Domain Services infrastructure.

- Planning for AD DS Deployment
- Upgrade Considerations

Module 9: Active Directory Domain Services

This module explains how to create and manage accounts, subnets, Site-Links, and Group Policy with new features in Active Directory Domain Services.

- What's New in AD DS
- Manageability and Reliability

Module 10: Identity and Access Services in Windows Server 2008 Active Directory

This module introduces Windows Server 2008's new Active Directory Services:

- Active Directory Federation Services for identity access solution.
- Active Directory Lightweight Directory Services (replaces Active Directory Account Management with Windows Server 2003), providing directory services for applications.
- Active Directory Right Management Services, enabling the creation of information-protection solutions.
- Active Directory Federation Services
- Active Directory Lightweight Directory Services
- Active Directory Rights Management Services

Module 11: Read-Only Domain Controllers

This module explains how to set up and manage a read-only domain controller.

- Read-Only Domain Controllers
- Read-Only Domain Controller Operation



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Module 12: Auditing Active Directory Domain Services Changes

This module explores new auditing features in Active Directory Domain Services and how to set up and manage auditing events.

- What's New in AD DS Auditing
- Implementing AD DS Change Auditing

Module 13: Enterprise PKI Active Directory Certificate Services (AD CS)

This module explains how to set up and manage Active Directory Certificate Services using PKIView.

- Certificate Authority

Module 14: High Availability Features

This module explains how to use failover clustering and network load balancing.

- Failover Clustering
- Network Load Balancing

Module 15: Performance Monitoring and Optimization

This module explains how to use Windows Server 2008's performance monitoring tools, including using Windows System Resource Manager to implement server resource controls.

- Windows Reliability and Performance Monitor
- Microsoft Windows System Resource Manager
- Monitoring Events

Module 16: Software Maintenance Using Windows Server Update Services

This module introduces Microsoft Windows Server Update Services (WSUS), a tool for managing and distributing software updates that resolve known security vulnerabilities and other stability issues in Microsoft Windows 2000 and newer operating systems, as well as other Microsoft applications. This module also describes how to install the client and server components of WSUS. It also provides necessary information about managing the WSUS infrastructure.

- Introduction to Windows Server Update Services
- Installing and Configuring Windows Server Update Services
- Managing Windows Server Update Services

M6417

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.

- Application Server Roles
- Application Server Features
- Windows Server as an Application Server

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.

- Review of IIS 6.0
- Key Improvements in IIS 7.0
- 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.

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

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.

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



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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.

- Overview of Windows SharePoint Services 3.0
- Collaboration Technologies Offered by Windows SharePoint Services 3.0
- Determining Organizational and User Needs
- Review Planning Site Creation, Maintenance, and Security
- Review Planning Server Requirements and Topologies
- Performing a Clean Installation of Windows SharePoint Services 3.0
- Installing and Configuring the Central Administration Site

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.

- Creating and Configuring Sites
- Managing Windows SharePoint Services 3.0 Sites
- Managing the Windows SharePoint Services 3.0 Server

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.

- Terminal Services Overview
- Terminal Services Core Functionality
- Terminal Services Web Access
- 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 optimize performance.

- Terminal Services Remote Programs
- Terminal Services Gateway
- Managing Terminal Services

Module 9: Configuring Storage

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

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



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