

Course Outline

6418- Deploying Windows Server 2008



Duration: 3 day (18hours)

Target Audience:

This course is intended for IT Professionals who are experienced with Windows 2000 Server and/or Windows Server 2003, who hold an MCSE or MCSA certification, or have equivalent knowledge.

Prerequisites:

Before attending this course, students must have:

- On-the-job experience in planning, implementing, managing, or supporting Windows Server 2000 or Windows Server 2003, including Active Directory and Network Infrastructure.
- Working knowledge of networking, for example, TCP/IP and Domain Name System (DNS).
- Experience with a Microsoft Windows Server 2003 Active Directory and Network Infrastructure.
- Experience with implementing security for a Microsoft Windows Server 2003 Network.
- Experience installing, configuring, and administering Microsoft Windows Server 2003, Windows XP, or Windows Vista.

Topics Covered:

- Module 1: Windows Server 2008 Installation & Configuration
 - Windows Server 2008 Setup Improvements and Requirements
 - Windows Server 2008 Server Core installation
 - Implement a volume license strategy using KMS and MAK
 - Lab 1: Install Windows Server 2008
 - Install Windows Server 2008
 - Install Windows Server Core 2008

After completing this module, students will be able to:

- Describe Windows Server 2008 setup improvements
- Describe the Windows Server 2008 Server Core Installation option
- Automate server activation using Microsoft Volume Activation
- Plan a volume license strategy

- Module 2: Windows Server Core 2008 Configuration
 - Server Core Basic Configuration
 - Configuring Server Core Roles
 - Lab 1: Configure Windows Server Core 2008
 - Configure Windows Server Core
 - Add and configure Windows Server Core roles
 - Add the Backup feature to Windows Server Core
 - Manage Windows Server Core

After completing this module, students will be able to:

- Configure Server Core.
- Describe how to add roles to Server Core.

- Module 3: Windows Server 2008 Unattended Installation
 - Unattended Windows Server 2008 Installation
 - Unattended Domain Controller Installation
 - Lab 1: Install Active Directory on Server Core Using an Unattend file
 - Create an answer file for use with Dcpromo
 - Lab 2: Deploy an RODC in a Remote Infrastructure Using an Unattend File
 - Create an Unattend file to automate RODC installation.
 - Deploy an RODC using an answer file.

After completing this module, students will be able to:

- Perform an unattended Windows Server 2008 installation.
- Perform an unattended domain controller installation.

- Module 4: Using Windows Deployment Services
 - Working with the WIM format
 - Windows Deployment Services
 - Lab 1: Working with Windows Deployment Services
 - Install and configure Windows Deployment Services.
 - Create operating system images in WDS.
 - Add components like language packs to an image.
 - Use an Unattend file with WDS.
 - Configure custom computer naming for large scale WDS deployments.
 - Deploy images with WDS.

After completing this module, students will be able to:

- Configure and use Windows Deployment Services in Windows Server 2008.
- Manage operating system images in the WIM image format.

- Module 5: Microsoft Deployment Toolkit
 - Introduction to the Microsoft Deployment Toolkit
 - Using the Microsoft Deployment Toolkit
 - Lab 1: Installing, Configuring, and Using MDT
 - Install Microsoft Deployment Toolkit
 - Configure Microsoft Deployment Toolkit
 - Create an MDT build
 - Create MDT deployment points
 - Perform a Lite Touch installation using MDT

After completing this module, students will be able to:

- Describe the Microsoft Deployment Toolkit.
- Use the Microsoft Deployment Toolkit.

- Module 6: Upgrading and Migrating Active Directory
 - Windows Server 2008 Upgrade Overview
 - Upgrading Windows Server 2003 domain controllers to Windows Server 2008 Domain Controllers
 - Active Directory Upgrade Sequence
 - Lab 1: Preparing the Active Directory Environment for Windows Server 2008
 - Prepare a Windows Server 2003 forest for upgrade to Windows Server 2008.
 - Prepare a Windows Server 2003 domain for upgrade to Windows Server 2008
 - Lab 2: Installing an Additional Windows Server 2008 Domain Controller
 - Install a domain controller in an existing domain using the Windows interface.
 - Install a domain controller in an existing domain using the Command Line.

After completing this module, students will be able to:

- Describe the Windows Server 2008 upgrade process.
- Describe how to upgrade Microsoft Windows 2000 Server and Windows Server 2003 Domain Controllers to Windows Server 2008 Domain Controllers.
- Describe the Active Directory upgrade sequence.

➤ Module 7: Upgrading File and Print, Web, and Remote Infrastructure Servers

- Upgrading File and Print Servers
- Upgrading Web and Application Servers
- Upgrading Remote Infrastructure Servers
 - Lab 1: Upgrading a Windows Server 2003 File and Print Server
 - Install and configure the file and print server roles
 - Create and replicate a DFS namespace
 - Schedule a backup
 - Migrate a printer
 - Lab 2: Upgrading a Windows Server 2003 Web Server to Windows Server 2008 and IIS 7.0
 - Export an application and configuration from an IIS 6.0 server
 - Configure IIS 7.0 on Windows Server 2008
 - Import a configuration onto Windows Server 2008
 - Lab 3: Prepare a Windows Server 2008 server Core Installation for use as a Remote Infrastructure Server
 - Enable Remote Desktop and remote administration of Windows Firewall
 - Install and configure BitLocker Drive Encryption (BDE) and BDE Remote Admin Tool
 - Configure admin role separation on a Read-Only Domain Controller
 - Configure Distributed File System Replication (DFS-R)

After completing this module, students will be able to:

- Describe considerations for upgrading file and print servers.
- Describe considerations for upgrading Web and application servers.
- Describe considerations for upgrading remote infrastructure servers.

➤ Module 8: Migrating Workloads to Microsoft Virtual Machines

- Microsoft Server Virtualization
- Migrating Workloads to Microsoft Virtual Machines
 - Lab 1: Migrating Workloads to Microsoft Virtual Server Using VSMT
 - Migrate a Windows NT 4.0 server to a virtual machine

After completing this module, students will be able to:

- Describe Microsoft server virtualization solutions
- Migrate workloads to Microsoft virtual machines

➤ Module 9: Configuring Windows Server 2008 for Performance

- Hardware Considerations
- Workload Considerations

After completing this module, students will be able to:

- Describe hardware considerations for Windows Server 2008 performance.
- Describe workload-specific tuning considerations
- Migrate workloads to Microsoft virtual machines