

## MS 2273 Managing and Maintaining a Microsoft Windows Server 2003 Environment

**Description:** This course combines five days of instructor-led training with additional e-Learning content to provide students with the knowledge and skills that are required to manage accounts and resources, maintain server resources, monitor server performance, and safeguard data in a Microsoft Windows Server 2003 environment.

This is the first course in the Systems Administrator and Systems Engineer tracks for Windows Server 2003 and serves as the entry point for other courses in the Windows Server 2003 curriculum.

This course is also offered as 8 days of instructor-led training (as two courses) for students who prefer a complete classroom training experience:

2274, Managing a Microsoft Windows Server 2003 Environment (five days)

2275, Maintaining a Microsoft Windows Server 2003 Environment (three days)

**Days:** 5

**Prerequisites:** Before attending this course, students must have:  
CompTIA A+ certification, or equivalent knowledge and skills.  
CompTIA Network+ certification, or equivalent knowledge and skills.

**Audience:** This course is intended for individuals who are employed as or seeking employment as a systems administrator or systems engineer.

### Module 1: Introduction to Administering Accounts and Resources

This module explains how to administer accounts and resources on computers running Microsoft Windows Server 2003 software in a networked environment.

#### Lessons

- Multimedia: Introduction to Administering Accounts and Resources
- The Windows Server 2003 Environment
- Logging on to Windows Server 2003
- Using the Run As Feature for Administration
- Installing and Configuring Administrative Tools
- Creating an Organizational Unit

#### Lab: Creating Organizational Units

### Module 2: Managing User and Computer Accounts

This module explains how to modify user and computer accounts on computers running Microsoft Windows Server 2003 in a networked environment.

#### Lessons

- Creating User Accounts
- Creating Computer Accounts
- Modifying User and Computer Account Properties
- Creating a User Account Template
- Managing User and Computer Accounts
- Using Queries to Locate User and Computer Accounts in Active Directory

#### Lab: Managing User and Computer Accounts

### Module 3: Managing Groups

This module explains how to perform various administrative functions using groups.

### **Lessons**

- Creating groups.
- Managing group membership.
- Strategies for using groups.
- Using default groups.

### **Lab: Creating and Managing Groups**

#### **Module 4: Managing Access to Resources**

This module explains how to enable resource access with permissions, manage access to files and folders using permissions, and manage permission inheritance.

### **Lessons**

- Overview of Managing Access to Resources
- Managing Access to Shared Folders
- Managing Access to Files and Folders Using NTFS Permissions
- Determining Effective Permissions
- Managing Access to Shared Files Using Offline Caching

### **Lab: Managing Access to Resources**

#### **Module 5: Managing Access to Objects in Organizational Units**

This module explains the permissions available for managing access to Active Directory objects, how to move objects between organizational units in the same domain, and how to delegate control of an organizational unit.

### **Lessons**

- Modifying Permissions for Active Directory Objects
- Delegating Control of Organizational Units

### **Lab: Managing Access to Objects in Organizational Units**

#### **Module 6: Implementing Group Policy**

This module explains the purpose and function of Group Policy in a Microsoft Windows Server 2003 environment. It also explains how to implement Group Policy objects (GPOs) and manage GPOs.

### **Lessons**

- Implementing Group Policy Objects
- Implementing GPOs on a Domain
- Managing the Deployment of Group Policy

### **Lab: Implementing a GPO**

#### **Module 7: Managing the User Environment by Using Group Policy**

This module explains how to use Group Policy to assign scripts, restrict group membership and access to software and configure folder redirection. As well, this module explains how to determine which GPOs are being applied on a computer.

### **Lessons**

- Configuring Group Policy Settings
- Assigning Scripts with Group Policy
- Restricting Group Membership and Access to Software
- Configuring Folder Redirection
- Determining Applied GPOs

### **Lab: Managing the User Environment by Using Group Policy**

#### **Module 8: Implementing Administrative Templates and Audit Policy**

This module provides a broad overview of security in Microsoft Windows Server 2003. It also explains how to deploy security templates and test computer security policy and how to configure auditing and manage security logs.

### **Lessons**

- Overview of Security in Windows Server 2003
- Using Security Templates to Secure Computers
- Testing Computer Security Policy
- Configuring Auditing
- Managing Security Logs

### **Lab: Managing Security Settings**

#### **Module 9: Preparing to Administer a Server**

This module explains how to administer a server. It describes how to manage servers remotely, what tools to use,

and the rights and permissions that are needed to administer a server.

**Lessons**

- Introduction to Administering a Server
- Configuring Remote Desktop to Administer a Server
- Managing Remote Desktop Connections

**Lab A: Preparing to Administer a Server**

**Module 10: Preparing to Monitor Server Performance**

This module explains how to monitor server performance by using performance tools, configure and manage performance logs, configure and manage alerts, and manage system monitor views.

**Lessons**

- Introduction to Monitoring Server Performance
- Performing Real-Time and Logged Monitoring
- Configuring and Managing Counter Logs
- Configuring Alerts

**Lab A: Preparing to Monitor Server Performance**

**Module 11: Managing Data Storage**

This module explains the Encrypting File System (EFS), which contributes to the safe storage of data and helps to keep the network from harm. It also explains how to administer disk quotas.

**Lessons**

- Managing File Compression
- Configuring File Encryption
- Configuring EFS Recovery Agents
- Implementing Disk Quotas

**Lab A: Managing Data Storage**

**Module 12: Managing Disaster Recovery**

This module explains how to plan for a computer disaster and how to use the features of Windows Server 2003 to prevent a disaster or recover when one occurs.

**Lessons**

- Preparing for Disaster Recovery
- Backing Up Data
- Scheduling Backup Jobs
- Restoring Data
- Configuring Shadow Copies
- Recovering from Server Failure

**Lab A: Managing Disaster Recovery**

**Module 13: Software Maintenance Using Windows Server Update Services**

This module explains how to use Microsoft Windows Server Update Services to manage and distribute critical software updates that resolve known security vulnerabilities and other stability issues.

**Lessons**

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

**Lab A: Software Maintenance Using Windows Server Update Services**

**Module 14: Securing Windows Server 2003**

This module describes how to secure Microsoft Windows ServerT 2003. The module provides an overview of securing servers, core server security, hardening servers, and the Microsoft Baseline Security Analyzer tool.

**Lessons**

- Introduction to Securing Servers
- Implementing Core Server Security
- Hardening Servers
- Microsoft Baseline Security Analyzer

**Lab A: Securing Windows Server 2003**

**Note**

The self study modules are included on the student CDROM but are not printed in the course manual.

**Self-Study Module A: Implementing Printing**

This module explains how to implement printing in a Windows Server 2003 environment.

**Lessons**

- Multimedia: Introduction to Printing in the Windows Server 2003 Family
- Installing and Managing Access to Printers
- Managing Printer Drivers
- Implementing Printer Locations

**Lab A: Implementing Printing**

**Self-Study Module B: Managing Printing**

This module explains how to set up a network-wide printing strategy to meet the needs of users and troubleshoot installation or configuration problems.

**Lessons**

- Changing the Location of the Print Spooler
- Setting Printer Priorities and Scheduling Printer Availability
- Configuring a Printing Pool and Redirecting Print Queues

**Lab: Managing Printing**

**Self-Study Module C: Monitoring Server Performance**

This module explains how to collect performance data by monitoring primary server subsystems. It also covers how to identify system bottlenecks by using the Performance console and Task Manager in Microsoft Windows Server 2003.

**Lessons**

- Multimedia: The Primary Server Subsystems
- Monitoring Server Memory
- Monitoring Processor Usage
- Monitoring Disks
- Monitoring Network Usage
- Monitoring Best Practices

**Lab A: Monitoring Server Performance**

**Self-Study Module D: Maintaining Device Drivers**

This module explains how to maintain device drivers.

**Lessons**

- Configuring Device Driver Signing Options
- Using Device Driver Rollback

**Self-Study Module E: Managing Disks**

This module explains how to manage disks and 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
- Importing a Foreign Disk

**Lab A: Managing Disks**

**Upcoming Classes**

Sorry, there are no upcoming classes. Feel free to contact us if you're interested in us putting a class together.