

**Course Code SSM6419** Configuring, Managing and Maintaining Windows Server 2008 Servers  
**Duration: 5 Days**

### **Course Outline**

#### **Module 1: Introduction to Managing Microsoft Windows Server 2008 Environment**

The module explains server roles, Active Directory, the Windows Server 2008 Administrative Tools and Remote Desktop.

#### **Lessons**

- Server Roles
- Overview of Active Directory
- Using Windows Server 2008 Administrative Tools
- Using Remote Desktop for Administration

#### **Lab : Administering Windows Server 2008**

- Install the DNS Server Role
- Configuring Remote Desktop for Administration

After completing this module, students will be able to:

- Describe server roles and how they are categorized.
- Describe the characteristics of Active Directory components.
- Describe common Windows Server 2008 Administrative Tools.
- Describe how to use Remote Desktop for Administration

#### **Module 2: Creating Active Directory Domain Services User and Computer Objects**

This module explains how to manage user accounts, create computer accounts and manage AD DS objects.

#### **Lessons**

- Managing User Accounts
- Creating Computer Accounts
- Automating AD DS Object Management
- Using Queries to Locate Objects in AD DS

#### **Lab : Creating AD DS User and Computer Accounts**

- Creating and Configuring User Accounts
- Creating and Configuring Computer Accounts
- Automating the Management of AD DS Objects

After completing this module, students will be able to:

- Configure AD DS user accounts.
- Configure AD DS computer accounts.
- Automate AD DS Object Management.
- Use queries to search AD DS.

### **Module 3: Creating Groups and Organizational Units**

This module introduces groups and how to manage them.

#### **Lessons**

- Introduction to AD DS Groups
- Managing Group Accounts
- Creating Organizational Units

#### **Lab : Creating an OU Infrastructure**

- Creating AD DS Groups
- Planning an OU Hierarchy (Discussion)
- Creating an OU Hierarchy

After completing this module, students will be able to:

- Describe the options for creating groups.
- Configure groups in AD DS.
- Configure OUs in AD DS.

### **Module 4: Managing Access to Resources in Active Directory Domain Services**

The module explains how to manage access and assign and manage permissions.

#### **Lessons**

- Managing Access Overview
- Managing NTFS File and Folder Permissions

- Assigning Permissions to Shared Resources
- Determining Effective Permission

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

- Planning a Shared Folder Implementation (Discussion)
- Implementing a Shared Folder Implementation
- Evaluating the Shared Folder Implementation

After completing this module, students will be able to:

- Describe how access management works in AD DS.
- Assign permissions to shared folders.
- Configure permissions using NTFS.
- Determine effective permissions.

### **Module 5: Configuring Active Directory Objects and Trusts**

This module explains how to delegate administrative access to AD DS objects and how to configure AD DS Trusts.

#### **Lessons**

- Delegating Administrative Access to AD DS Objects
- Configuring AD DS Trusts

### **Lab : Configuring Active Directory Delegation**

- Delegating Control of AD DS Objects

### **Lab : Configuring Active Directory Trusts**

- Configuring AD DS Trusts

After completing this module, students will be able to:

- Delegate administrative access to Active Directory objects.
- Configure Active Directory trusts.

## **Module 6: Creating and Configuring Group Policy**

This module explains how to configure and manage Group Policy Objects.

### **Lessons**

- Overview of Group Policy
- Configuring the Scope of Group Policy Objects
- Evaluating the Application of Group Policy Objects
- Managing Group Policy Objects
- Delegating Administrative Control of Group Policy

### **Lab : Creating and Configuring GPOs**

- Creating and Configuring Group Policy Objects
- Managing the Scope of GPO Application

### **Lab : Verifying and Managing GPOs**

- Verifying GPO Application
- Managing GPOs
- Delegating Administrative Control of GPOs

After completing this module, students will be able to:

- Describe Group Policy.
- Configure the application scope for Group Policy Objects.
- Evaluate the application of Group Policy Objects.
- Manage Group Policy Objects.
- Delegate administrative control of Group Policy Objects.

## **Module 7: Configuring User and Computer Environments Using Group Policy**

This module explains how to configure user environments using group policy.

### **Lessons**

- Configuring Group Policy Settings

- Configuring Scripts and Folder Redirection Using Group Policy
- Configuring Administrative Templates
- Deploying Software Using Group Policy
- Configuring Group Policy Preferences
- Introduction to Group Policy Troubleshooting
- Troubleshooting Group Policy Application
- Troubleshooting Group Policy Settings

#### **Lab : Configuring Scripts and Folder Redirection Using Group Policy**

- Configuring Logon Scripts and Folder Redirection

#### **Lab : Configuring Administrative Templates**

- Configure Administrative Templates

#### **Lab : Deploying Software with Group Policy**

- Deploy a Software Package with Group Policy
- Verify Software Installation

#### **Lab : Configuring Group Policy Preferences**

- Configure Group Policy Preferences
- Verify Group Policy Preferences Application

#### **Lab : Troubleshooting Group Policy Issues**

- Troubleshoot Group Policy Scripts
- Troubleshoot GPO Lab-7B
- Troubleshoot GPO Lab-7C
- Troubleshoot GPO Lab-7D

After completing this module, students will be able to:

- Configure Group Policy settings.

- Configure scripts and folder redirection by using Group Policy.
- Configure administrative templates.
- Configure Group Policy Preferences.
- Deploy software by using Group Policy.
- Troubleshoot Group Policy Application.
- Troubleshoot Group Policy Settings.

### **Module 8: Implementing Security Using Group Policy**

This module explains how to configure security policies, implement password policies, restrict access to software and user security templates.

#### **Lessons**

- Configuring Security Policies
- Implementing Fine-Grained Password Policies
- Restricting Group Membership and Access to Software
- Managing Security Using Security Templates

#### **Lab : Implementing Security Using Group Policies**

- Configuring Account and Security Policy Settings
- Implementing Fine-Grained Password Policies

#### **Lab : Configuring and Verifying Security Policies**

- Configuring Restricted Groups and Software Restriction Policies
- Configuring Security Templates
- Verifying the Security Configuration

After completing this module, students will be able to:

- Configure security policies.
- Implement fine-grained password policies.
- Restrict group membership and access to applications by using security policies.
- Apply security policies by using security templates.

### **Module 9: Configuring Server Security Compliance**

This module explains how to secure a windows infrastructure, configure an audit policy, manage WSUS and plan for a security update.

### **Lessons**

- Securing a Windows Infrastructure
- Configuring an Audit Policy
- Overview of Windows Server Update Services (WSUS)
- Managing WSUS

### **Lab : Manage Server Security**

- Configuring Windows Software Update Services
- Configure Auditing

After completing this module, students will be able to:

- Secure a server role within a windows infrastructure.
- Configure an audit policy.
- Describe the use of Windows Server Update Services.
- Manage updates using WSUS.
- Plan for security update management by using Windows Server Update Services (WSUS).

### **Module 10: Configuring and Managing Storage Technologies**

This module explains how to manage storage using File Server Resource Manager, configure quota management, implement file screening and manage storage reports.

### **Lessons**

- Windows Server 2008 Storage Management Overview
- Managing Storage Using File Server Resource Manager
- Configuring Quota Management
- Implementing File Screening
- Managing Storage Reports
- Understanding Storage Area Networks

### **Lab : Installing the FSRM Role Service**

- Installing the FSRM Role Service

### **Lab : Configuring Storage Quotas**

- Configuring Storage Quotas

### **Lab : Configuring File Screening**

- Configuring File Screening

### **Lab : Generating Storage Reports**

- Generating Storage Reports

After completing this module, students will be able to:

- Describe storage management solutions included in Windows Server 2008.
- Manage storage using FSRM.
- Configure quota management using FSRM.
- Implement file screening using FSRM.
- Manage storage reports.
- Troubleshoot storage issues.

## **Module 11: Configuring and Managing Distributed File System**

This module explains how to configure DFS namespaces and replication.

### **Lessons**

- Distributed Files System (DFS) Overview
- Configuring DFS Namespaces
- Configuring DFS Replication

### **Lab : Installing the Distributed File System Role Service and Creating a DFS Namespace**

- Installing the Distributed File System Role Service

- Creating a DFS Namespace

### **Lab : Configuring Folder Targets and Viewing Diagnostic Reports**

- Configuring Folder Targets and Folder Replication
- Viewing Diagnostic Reports for Replicated Folders

After completing this module, students will be able to:

- Describe the distributed file system.
- Manage DFS namespaces.
- Configure DFS replication.

### **Module 12: Configuring Network Access Protection**

This module explains how to configure, monitor and troubleshoot NAP.

#### **Lessons**

- Overview of Network Access Protection
- How NAP Works
- Configuring NAP
- Monitoring and Troubleshooting NAP

### **Lab : Configuring NAP for DHCP and VPN**

- Configuring NAP for DHCP Clients
- Configuring NAP for VPN Clients

After completing this module, students will be able to:

- Describe the benefits and uses of NAP.
- Describe how NAP works in various access scenarios.
- Configure NAP.
- Monitor and troubleshoot NAP.

### **Module 13: Configuring Availability of Network Resources**

This module explains how to configure shadow copies and provide server and service availability.

## **Lessons**

- Configuring Shadow Copies
- Providing Server and Service Availability

### **Lab : Configuring Shadow Copying**

- Configuring Shadow Copying

### **Lab : Configuring and Testing Network Load Balancing**

- Configuring and Testing Network Load Balancing

After completing this module, students will be able to:

- Configure shadow copies.
- Provide server and service availability.

## **Module 14: Monitoring and Maintaining Windows Server 2008 Servers**

This module explains how to monitor and maintain Windows Server 2008 servers.

## **Lessons**

- Planning Monitoring Tasks
- Calculating a Server Baseline
- Measuring Performance Objects
- Selecting Appropriate Monitoring Tools
- Planning Notification Methods
- Overview of Windows Server 2008 Maintenance Tasks
- Automating Windows Server 2008 Maintenance

### **Lab : Identifying Windows Server 2008 Monitoring Requirements**

- Evaluating Performance Metrics
- Monitoring Performance Metrics

### **Lab : Configuring Windows Server 2008 Monitoring**

- Configuring Data Collector Sets
- Monitoring Extension Exercise
- Automating Maintenance Tasks

After completing this module, students will be able to:

- Plan monitoring tasks.
- Determine an appropriate server baseline.
- Determine objects and counters to monitor based on server role.
- Analyze key performance counters.
- Select appropriate monitoring tools.
- Identify appropriate notification methods.
- Create a server management task schedule for Windows Server 2008.
- List automated maintenance tools for Windows Server 2008.

### **Module 15: Managing Windows Server 2008 Backup and Restore**

This module explains how to back up and restore Windows Server 2008 servers.

#### **Lessons**

- Planning Backups with Windows Server 2008
- Planning Backup Policy on Windows Server 2008
- Planning a Server Restore Policy
- Planning an EFS Restore Policy
- Troubleshooting Windows Server 2008 Startup

#### **Lab : Planning Windows Server 2008 Backup Policy**

- Evaluating the Existing Backup Plan
- Updating the Backup Policy
- Reviewing Backup Policy and Plans
- Implementing the Backup Policy

#### **Lab : Planning Windows Server 2008 Restore**

- Evaluating Backup Data
- Planning a Restore

- Investigating a Failed Restore
- Restoring System State Data

After completing this module, students will be able to:

- Create a backup and recovery plan by using Windows Server Backup.
- Develop a backup policy for Windows Server Backup.
- Create a server restore plan.
- Create a plan for restoring Encrypting File System (EFS) files.
- Verify the restore procedure.