

## **MOC6425 Configuring and Troubleshooting Windows Server 2008 Active Directory Domain Services Course Summary**

### **Description**

This course provides to teach Active Directory Technology Specialists with the knowledge and skills to configure Active Directory Domain Services in a distributed environment, implement Group Policies, perform backup and restore, and monitor and troubleshoot Active Directory related issues

### **Objectives**

At the end of this course, students will be able to:

- Implement and configure Active Directory domain services in their enterprise environment.

### **Topics**

- Implementing Active Directory Domain Services
- Configuring Domain Name Service for Active Directory Domain Services
- Configuring Active Directory Objects and Trusts
- Configuring Active Directory Sites and Replication
- Creating and Configuring Group Policy
- Configuring User Environments Using Group Policy
- Implementing Security Using Group Policy
- Implementing an Active Directory Domain Services Monitoring Plan
- Implementing an Active Directory Domain Services Maintenance Plan
- Troubleshooting Active Directory, DNS, and Replication Issues
- Troubleshooting Group Policy Issues
- Implementing an Active Directory Domain Services Infrastructure

### **Audience**

The primary audience for this course are AD Technology Specialists, Server Administrators, and Enterprise Administrators who want to learn how to implement AD in a distributed environment, secure domains using Group Policies, and perform backup, restore, and monitor and troubleshoot AD configuration to ensure trouble free operation

### **Prerequisites**

Before attending this course, students must have:

- Basic understanding of networking.
- Intermediate understanding of network operating systems.
- An awareness of security best practices.
- Basic knowledge of server hardware. A+ or equivalent knowledge
- Some experience creating objects in Active Directory.
- Foundation course (6424A) or equivalent knowledge.
- Basic concepts of backup and recovery in a Windows Server Environment.

### **Duration**

Five days

## MOC6425 Configuring and Troubleshooting Windows Server 2008 Active Directory Domain Services Course Outline

### I. Implementing Active Directory Domain Services

This module explains how to install and configure Active Directory Domain Services and install and configure a read-only domain controller.

- A. Installing Active Directory Domain Services
- B. Deploying Read-Only Domain Controllers
- C. Configuring AD DS Domain Controller Roles

#### Lab: Implementing Read-Only Domain Controllers

- Evaluating Forest and Server Readiness for Installing an RODC
- Installing and Configuring an RODC
- Configuring AD DS Domain Controller Roles

**After completing this module, students will be able to:**

- Install Active Directory Domain Services.
- Deploy Read-Only Domain Controllers.
- Configure AD DS Domain Controller Roles.

### II. Configuring Domain Name Service for Active Directory Domain Services

This module explains how to configure Domain Name Services (DNS) for Active Directory Domain Services.

- A. Overview of Active Directory Domain Services and DNS Integration
- B. Configuring Active Directory Integrated Zones
- C. Configuring Read Only DNS Zones

#### Lab: Configuring AD DS and DNS Integration

- Configuring Active Directory Integrated Zones
- Configuring Read-Only DNS Zones

**After completing this module, students will be able to:**

- Describe Active Directory Domain Services and DNS integration.
- Configure Active Directory Integrated Zones.
- Configure read only DNS zones.

### III. Configuring Active Directory Objects and Trusts

This module explains how to configure Active Directory Objects and Trusts.

- A. Configuring Active Directory Objects
- B. Strategies for Using Groups
- C. Automating AD DS Object Management
- D. Delegating Administrative Access to AD DS Objects
- E. Configuring AD DS Trusts

#### Lab: Configuring Active Directory Objects

- Configuring AD DS Objects
- Implementing an AD DS Group Strategy
- Automating the Management of AD DS Objects

#### Lab: Configuring Active Directory Objects and Trusts

- Delegating Control of AD DS Objects
- Configuring AD DS Trusts

**After completing this module, students will be able to:**

- Configure Active Directory Objects.
- Describe strategies for using groups.
- Automate AD DS object management.
- Delegate Administrative access to AD DS objects.
- Configure AD DS trusts.

### IV. Configuring Active Directory Sites and Replication

This module explains how to configure Active Directory sites and replication.

- A. Overview of AD DS Replication
- B. Overview of AD DS Sites and Replication
- C. Configuring and Monitoring AD DS Replication

#### Lab: Configuring Active Directory Sites and Replication

- Configuring AD DS Sites and Subnets
- Configuring AD DS Replication
- Monitoring AD DS Replication

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## MOC6425 Configuring and Troubleshooting Windows Server 2008 Active Directory Domain Services Course Outline (cont'd)

**After completing this module, students will be able to:**

- Describe AD DS replication.
- Configure Active Directory Domain Services sites.
- Configure and monitor AD DS replication.

### **V. Creating and Configuring Group Policy**

This module explains how to create and configure Group Policy.

- A. Overview of Group Policy
- B. Configuring the Scope of Group Policy Objects
- C. Evaluating the Application of Group Policy Objects
- D. Managing Group Policy Objects
- E. Delegating Administrative Control of Group Policy

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

- Creating Group Policy Objects
- Managing the Scope of GPO Application
- Verifying GPO Application
- Managing GPOs
- Delegating Administrative Control of GPOs

**After completing this module, students will be able to:**

- Describe Group Policy.
- Configure the scope of Group Policy objects.
- Evaluate the application of Group Policy objects.
- Manage Group Policy objects.
- Delegate administrative control of Group Policies.

### **VI. Configuring User Environments Using Group Policy**

This module explains how to configure user environments using Group Policy.

- A. Configuring Group Policy Settings
- B. Configuring Scripts and Folder Redirection Using Group Policies

- C. Configuring Administrative Templates
- D. Group Policy Preferences
- E. Deploying Software Using Group Policy

#### **Lab: Lab Configuring User Environments Using Group Policies**

- Configuring Scripts and Folder Redirection
- Configuring Administrative Templates
- Configuring Preferences
- Verifying GPO Application

**After completing this module, students will be able to:**

- Configure Group Policy settings.
- Configure scripts and folder redirection using Group Policy.
- Configure administrative templates.
- Describe Group Policy preferences.
- Deploy software using Group Policy.

### **VII. Implementing Security Using Group Policy**

This module explains how to implement security using Group Policy.

- A. Configuring Security Policies
- B. Implementing Fine-Grained Password Policies
- C. Restricting Group Membership and Access to Software
- D. Managing Security Using Security Templates

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

- Configuring Account and Security Policy Settings
- Implementing Fine-Grained Password Policies
- Configuring Restricted Groups and Software Restriction Policies
- Configuring Security Templates
- Verifying the Security Configuration

## **MOC6425 Configuring and Troubleshooting Windows Server 2008 Active Directory Domain Services Course Outline (cont'd)**

**After completing this module, students will be able to:**

- Configure security settings.
- Implement fine-grained password policies.
- Restrict group membership and access to software.
- Manage security using security templates.

### **VIII. Implementing an Active Directory Domain Services Monitoring Plan**

This module explains how to implement Active Directory Domain Services monitoring plan.

- A. Monitoring AD DS Using Event Viewer
- B. Monitoring Active Directory Domain Servers Using Reliability and Performance Monitor
- C. Configuring AD DS Auditing

### **Lab: Monitoring Active Directory Domain Services**

- Monitoring AD DS Using Event Viewer
- Monitoring AD DS Using Performance and Reliability Monitor
- Configuring AD DS Auditing

**After completing this module, students will be able to:**

- Monitor Active Directory Domain Services using Event Viewer.
- Monitor Active Directory Domain servers using reliability and performance monitor.
- Configure Active Directory Domain Services Auditing.

### **IX. Implementing an Active Directory Domain Services Maintenance Plan**

This module explains how to implement an Active Directory Domain Services maintenance plan.

- A. Maintaining the AD DS Domain Controllers
- B. Backing Up Active Directory Domain Services
- C. Restoring Active Directory Domain Services

### **Lab: Implementing an Active Directory Domain Services Maintenance Plan**

- Maintaining AD DS Domain Controllers
- Backing Up AD DS
- Performing an Authoritative Restore of the AD DS Database
- Restoring Data Using the AD DS Snapshot Viewer

**After completing this module, students will be able to:**

- Maintain the AD DS Domain Controllers.
- Back up the Active Directory Domain Services.
- Restore the Active Directory Domain Services.

### **X. Troubleshooting Active Directory, DNS, and Replication Issues**

This module explains how to troubleshoot Active Directory Domain Services, Domain Name Service, and Active Directory replication.

- A. Troubleshooting Active Directory Domain Services
- B. Troubleshooting DNS Integration with AD DS
- C. Troubleshooting AD DS Replication

### **Lab: Troubleshooting Active Directory, DNS, and Replication Issues**

- Troubleshooting Authentication and Authorization Errors
- Troubleshooting the Integration of DNS and AD DS
- Troubleshooting AD DS Replication

**After completing this module, students will be able to:**

- Troubleshoot Active Directory Domain Services.
- Troubleshoot DNS integration with AD DS.
- Troubleshoot AD DS replication.

## **MOC6425 Configuring and Troubleshooting Windows Server 2008 Active Directory Domain Services Course Outline (cont'd)**

### **XI. Troubleshooting Group Policy Issues**

This module explains how to troubleshoot the application of Group Policy objects.

- A. Introduction to Group Policy Troubleshooting
- B. Troubleshooting Group Policy Application
- C. Troubleshooting Group Policy Settings

- Implementing the Corporate Desktop Policy

**After completing this module, students will be able to:**

- Implement an Active Directory Domain Services infrastructure.

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

- Troubleshooting Group Policy Scripts
- Troubleshooting GPO Lab11B
- Troubleshooting GPO Lab11C
- Troubleshooting GPO Lab11D

**After completing this module, students will be able to:**

- Describe Group Policy troubleshooting.
- Troubleshoot Group Policy application.
- Troubleshoot Group Policy Settings.

### **XII. Implementing an Active Directory Domain Services Infrastructure**

This module explains how to implement an Active Directory Domain Services Infrastructure.

- A. Overview of the AD DS Deployment
- B. Planning a Group Policy Strategy

#### **Lab: Deploying Active Directory Domain Services**

- Installing a Read-only Domain Controller (RODC) onto a Server Core, and Creating a Branch Office Site
- Creating a Domain in a Separate Tree and Separate Site

#### **Lab: Configuring Forest Trust Relationships**

- Upgrading the Fabrikam Domain, and Creating a Forest Trust with Woodgrove Bank

#### **Lab: Planning a Group Policy Strategy**

- Planning Group Policy
- Creating a Domain in a Separate Tree and Separate Site

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