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## **6425– Configuring and Troubleshooting Windows Server 2008 Active Directory Domain Services**

### **5 Day**

Elements of this syllabus are subject to change.

This five-day instructor-led 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.

### **WHO SHOULD ATTEND**

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.

### **AT COURSE COMPLETION**

After completing this course, students will be able to implement and configure Active Directory domain services in their enterprise environment.



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## LESSON TOPICS

### Module 1: Installing 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.

#### Lessons

- Installing Active Directory Domain Services
- Deploying Read-Only Domain Controllers
- 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.

### Module 2: Configuring DNS for AD DS

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

#### Lessons

- Overview of Active Directory Domain Services and DNS Integration
- Configuring Active Directory Integrated Zones
- Configuring Read Only DNS

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

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



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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.

### **Module 3: Configuring Active Directory Objects and Trusts**

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

#### **Lessons**

- Configuring Active Directory Objects
- Automating AD DS Object Management
- Delegating Administrative Access to AD DS Objects
- Configuring AD DS Trusts

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

- Configuring AD DS Objects
- Automating the Management of AD DS Objects
- Delegating Control of AD DS Objects
- Configuring AD DS Trusts

After completing this module, students will be able to:

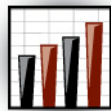
- Configure Active Directory Objects.
- Automate AD DS object management.
- Delegate Administrative access to AD DS objects.
- Configure AD DS trusts.

### **Module 4: Configuring Active Directory Sites and Replication**

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

#### **Lessons**

- Overview of AD DS Replication
- Configuring Active Directory Domain Services Sites
- Configuring and Monitoring AD DS Replication



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

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

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.

### **Module 5: Creating and Configuring Group Policies**

This module explains how to create and configure group policies.

#### **Lessons**

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

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



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## **Module 6: Configuring User Environments Using Group Policies**

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

### **Lessons**

- Configuring Group Policy Settings
- Configuring Scripts and Folder Redirection Using Group Policies
- Configuring Administrative Templates
- Deploying Software Using Group Policy

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

- Configuring Scripts and Folder Redirection
- Configuring Administrative Templates
- Distributing Software Using Group Policies
- Verifying GPO Application

After completing this module, students will be able to:

- Configure Group Policy settings.
- Configure scripts and folder redirection Using Group Policies.
- Configure administrative templates.
- Deploy software using Group Policy.

## **Module 7: Implementing Security Using Group Policies**

This module explains how to implement security using Group Policies.

### **Lessons**

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

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

- Configuring Domain Security Settings
- Implementing Fine-Grained Password Policies



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

### **Module 8: Implementing an Active Directory Domain Services Monitoring Plan**

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

#### **Lessons**

- Monitoring Active Directory Domain Services Using Event Viewer
- Monitoring Active Directory Domain Servers by Using Reliability and Performance Monitor
- Configuring Active Directory Domain Services Auditing

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

- Monitor AD DS by Using Event Viewer
- Monitor AD DS by Using Performance and Reliability Monitor
- Configure 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.

### **Module 9: Implementing an Active Directory Domain Services Maintenance Plan**

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

#### **Lessons**

- Maintaining the AD DS Domain Controllers
- Backing Up Active Directory Domain Services



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- Restoring Active Directory Domain Services

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

- Maintaining AD DS Domain Controllers
- Backing Up AD DS
- Performing a Non-Authoritative Restore of the AD DS Database
- Performing an Authoritative Restore of the AD DS Database
- Restoring Data By 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.

### **Module 10: Troubleshooting**

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

#### **Lessons**

- Troubleshooting Active Directory Domain Services
- Troubleshooting DNS Integration with AD DS
- 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.

### **Module 11: Troubleshooting Group Policy Issues**



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This module explains how to troubleshoot the application of group policy objects.

### **Lessons**

- Introduction to Group Policy Troubleshooting
- Troubleshooting Group Policy Application
- Troubleshooting Group Policy Settings

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

- Troubleshooting Group Policy Applications
- Troubleshooting Group Policy Settings

After completing this module, students will be able to:

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

## **Module 12: Implementing an Active Directory Domain Services Infrastructure**

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

### **Lessons**

- Overview of the AD DS Deployment

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

- Deploying Active Directory Domain Services
- Deploying AD DS Sites
- Implementing Group Policies
- Verifying the AD DS Deployment
- Testing the AD DS Disaster Recovery Plan

After completing this module, students will be able to:

- Implement an Active Directory Domain Services infrastructure.