

**Course Description:** 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, and basic concepts of backup and recovery in a Windows Server Environment.

**Benefits of Attendance:** Upon completion of this course, students will be able to:

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

## Course Outline:

### Module 1: Implementing Active Directory Domain Services

Installing Active Directory Domain Services  
Deploying Read-Only Domain Controllers  
Configuring AD DS Domain Controller Roles  
Lab: Implementing Read-Only Domain Controllers  
Exercise 1: Evaluating Forest and Server Readiness for Installing an RODC  
Exercise 2: Installing and Configuring an RODC  
Exercise 3: Configuring AD DS Domain Controller Roles

### Module 2: Configuring Domain Name Service for Active Directory Domain Services

Overview of Active Directory Domain Services and DNS Integration  
Configuring Active Directory Integrated Zones  
Configuring Read Only DNS Zones  
Lab: Configuring AD DS and DNS Integration  
Exercise 1: Configuring Active Directory Integrated Zones  
Exercise 2: Configuring Read-Only DNS Zones

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

Configuring Active Directory Objects  
Strategies for Using Groups  
Automating AD DS Object Management  
Delegating Administrative Access to AD DS Objects  
Configuring AD DS Trusts  
Lab A: Configuring Active Directory Objects  
Exercise 1: Configuring AD DS Objects  
Exercise 2: Implementing an AD DS Group Strategy  
Exercise 3: Automating the Management of AD DS Objects  
Lab B: Configuring Active Directory Objects and Trusts  
Exercise 1: Delegating Control of AD DS Objects  
Exercise 2: Configuring AD DS Trusts

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

Overview of AD DS Replication  
Overview of AD DS Sites and Replication  
Configuring and Monitoring AD DS Replication  
Lab: Configuring Active Directory Sites and Replication  
Exercise 1: Configuring AD DS Sites and Subnets  
Exercise 2: Configuring AD DS Replication  
Exercise 3: Monitoring AD DS Replication

### Module 5: Creating and Configuring Group Policy

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  
Exercise 1: Creating Group Policy Objects

Exercise 2: Managing the Scope of GPO Application  
Exercise 3: Verifying GPO Application  
Exercise 4: Managing GPOs  
Exercise 5: Delegating Administrative Control of GPOs

### Module 6: Configuring User Environments Using Group Policy

Configuring Group Policy Settings  
Configuring Scripts and Folder Redirection Using Group Policies  
Configuring Administrative Templates  
Group Policy Preferences  
Deploying Software Using Group Policy  
Lab: Configuring User Environments Using Group Policies  
Exercise 1: Configuring Scripts and Folder Redirection  
Exercise 2: Configuring Administrative Templates  
Exercise 3: Configuring Preferences  
Exercise 4: Verifying GPO Application

### Module 7: Implementing Security Using Group Policy

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  
Exercise 1: Configuring Account and Security Policy Settings  
Exercise 2: Implementing Fine-Grained Password Policies  
Exercise 3: Configuring Restricted Groups and Software Restriction Policies  
Exercise 4: Configuring Security Templates  
Exercise 5: Verifying the Security Configuration

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

Monitoring AD DS Using Event Viewer  
Monitoring Active Directory Domain Servers Using Reliability and Performance Monitor  
Configuring AD DS Auditing  
Lab: Monitoring Active Directory Domain Services  
Exercise 1: Monitoring AD DS Using Event Viewer  
Exercise 2: Monitoring AD DS Using Performance and Reliability Monitor  
Exercise 3: Configuring AD DS Auditing

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

Maintaining the AD DS Domain Controllers  
Backing Up Active Directory Domain Services  
Restoring Active Directory Domain Services  
Lab: Implementing an Active Directory Domain Services Maintenance Plan  
Exercise 1: Maintaining AD DS Domain Controllers  
Exercise 2: Backing Up AD DS

Exercise 3: Performing an Authoritative Restore of the AD DS Database  
Exercise 4: Restoring Data Using the AD DS Snapshot Viewer

### Module 10: Troubleshooting Active Directory, DNS, and Replication Issues

Troubleshooting Active Directory Domain Services  
Troubleshooting DNS Integration with AD DS  
Troubleshooting AD DS Replication  
Lab: Troubleshooting Active Directory, DNS, and Replication Issues  
Exercise 1: Troubleshooting Authentication and Authorization Errors  
Exercise 2: Troubleshooting the Integration of DNS and AD DS  
Exercise 3: Troubleshooting AD DS Replication

### Module 11: Troubleshooting Group Policy Issues

Introduction to Group Policy Troubleshooting  
Troubleshooting Group Policy Application  
Troubleshooting Group Policy Settings  
Lab: Troubleshooting Group Policy Issues  
Exercise 1: Troubleshooting Group Policy Scripts  
Exercise 2: Troubleshooting GPO Lab11B  
Exercise 3: Troubleshooting GPO Lab11C  
Exercise 4: Troubleshooting GPO Lab11D

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

Overview of the AD DS Deployment  
Planning a Group Policy Strategy  
Lab A: Deploying Active Directory Domain Services  
Exercise 1: Installing a Read-only Domain Controller (RODC) onto a Server Core, and Creating a Branch Office Site  
Exercise 2: Creating a Domain in a Separate Tree and Separate Site  
Lab B: Configuring Forest Trust Relationships  
Exercise: Upgrading the Fabrikam Domain, and Creating a Forest Trust with Woodgrove Bank  
Lab C: Planning a Group Policy Strategy  
Exercise 1: Planning Group Policy  
Exercise 2: Creating a Domain in a Separate Tree and Separate Site  
Exercise 3: Implementing the Corporate Desktop Policy