

5 Days

## 20742B: Identity with Windows Server 2016

This 5-day Microsoft 20742B Identity with Windows Server 2016 training is intended for IT professionals who have knowledge and experience of AD DS (Active Directory Domain Services) and want to acquire an understanding of identity and access technologies in Windows Server 2016.

The 20742B course will teach professionals to deploy and configure AD DS (Active Directory Domain Services) and various other AD DS such as Active Directory Certificate Services (AD CS) and Active Directory Federation Services (AD FS).

The Next Continuing Education would be MCSE: Cloud Platform and Infrastructure

## Course Details

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### Course Outline

#### Module 1: Installing and configuring domain controllers

This module introduces the features of AD DS and how to install domain controllers (DCs).

##### Lessons

- Overview of AD DS
- Overview of AD DS domain controllers
- Deploying a domain controller

#### Module 2: Managing objects in AD DS

This module explains how to use various techniques to manage objects in AD DS. This includes creating and configuring user, group, and computer objects.

##### Lessons

- Managing User Accounts
- Managing computer objects in AD DS
- Managing groups in AD DS
- Implementing and managing OUs
- Using Windows PowerShell for AD DS administration

#### Module 3: Advanced AD DS infrastructure management

This module explains how to plan and implement an AD DS deployment that includes multiple domains and forests.

#### **Lessons**

- Overview of advanced AD DS deployments
- Configuring AD DS trusts
- Deploying a distributed AD DS environment

#### **Module 4: Implementing and administering AD DS sites and replication**

This module explains how to plan and implement an AD DS deployment that includes multiple locations.

#### **Lessons**

- AD DS replication Overview
- Configuring and monitoring AD DS replication
- Configuring AD DS sites

#### **Module 5: Implementing Group Policy**

This module explains how to implement a GPO infrastructure and provides an overview of the components and technologies that compose the Group Policy framework.

#### **Lessons**

- Introducing Group Policy
- Implementing and administering GPOs
- Troubleshooting the application of GPOs
- Group Policy scope and Group Policy processing

#### **Module 6: Managing user settings with Group Policy**

This module explains how to configure Group Policy settings and Group Policy preferences.

#### **Lessons**

- Configuring Group Policy preferences
- Configuring Folder Redirection, Software Installation, and Scripts
- Implementing administrative templates

#### **Module 7: Securing Active Directory Domain Services**

This module explains how to configure domain controller security, account security, password security, and Group Managed Service Accounts (GMSA).

#### **Lessons**

- Configuring managed service accounts
- Securing domain controllers
- Implementing account security and audit authentication

#### **Module 8: Deploying and managing AD CS**

This module explains how to implement an AD CS deployment. This includes administering, deploying, and troubleshooting CAs.

## Lessons

- Administering CAs
- Deploying CAs
- Troubleshooting and maintaining CAs

## Module 9: Deploying and managing certificates

In this module you will learn how to deploy and manage certificates in an AD DS environment. This involves deploying and managing certificate templates, using certificates in a business environment, managing certificate revocation and recovery, and implementing smart cards.

### Lessons

- Using certificates in a business environment
- Managing certificate deployment, revocation, and recovery
- Deploying and managing certificate templates
- Implementing and managing smart cards

## Module 10: Implementing and administering AD FS

This module explains AD FS and how to configure AD FS in a single organization scenario and partner-organization scenario.

### Lessons

- Overview of AD FS
- Overview of Web Application Proxy
- AD FS requirements and planning
- Deploying and configuring AD FS

## Module 11: Implementing and administering AD RMS

This module explains how to implement an AD RMS deployment.

### Lessons

- Overview of AD RMS
- Configuring AD RMS content protection
- Deploying and managing an AD RMS infrastructure

## Module 12: Implementing AD DS synchronization with Microsoft Azure AD

This module explains the planning and configuring directory syncing between Microsoft Azure Active Directory (Azure AD) and on-premises AD DS.

### Lessons

- Planning and preparing for directory synchronization
- Managing identities with directory synchronization
- Implementing directory synchronization by using Azure AD Connect

## Module 13: Monitoring, managing, and recovering AD DS

This module explains how to monitor, manage, and maintain AD DS to help achieve high availability of AD DS.

## Lessons

- Managing the Active Directory database
- Active Directory backup and recovery options for AD DS and other identity and access solutions
- Monitoring AD DS

## Who Should Attend

The Identity with Windows Server 2016 course is primarily intended for IT professionals who carry relevant knowledge and experience working with AD DS and who want to develop knowledge about identity and access technologies in Windows Server 2016. This would typically include:

- AD DS administrators
- System or infrastructure administrators

## Pre Requisite

In addition to professional experience, students who attend this training should have the following technical knowledge:

- Understanding of core networking infrastructure components and technologies
- Basic knowledge of the TCP/IP protocol stack, addressing and name resolution
- Experience working in a Windows Server infrastructure enterprise environment
- Experience working with Windows Server 2008 or Windows Server 2012
- Knowledge of the Open Systems Interconnection (OSI) model
- Hands-on experience working with the Windows client operating systems
- Familiarity with networking topologies and architectures such as LANs, WANs and wireless networking.

## Exams

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