Course: **Administering Windows Server Hybrid Core Infrastructure (Exam AZ-800)**

Contact Hours: **50**

Prerequisite: **A+ & Network+ / Equivalent**

Abstract

Administering Windows Server Hybrid Core Infrastructure (Exam AZ-800) course teaches IT Professionals how to deploy and manage Active Directory Domain Services (AD DS) in on-premises and cloud environments. They are tasked with integrating Windows Server environments with Azure services and managing Windows Server.

Target Audience

- IT Professional
- Technicians
- Network/Server Administrators
- System Administrators
- Software Developers
- Azure / Microsoft 365 Administrators,
- Enterprise Architect

Learning Outcomes

On completion of this course, learners will be able to:

1. Deploy and manage Active Directory Domain Services (AD DS) in on-premises and cloud environments
2. Manage Windows Servers and workloads in a hybrid environment
3. Manage virtual machines and containers
4. Implement and manage an on-premises and hybrid networking infrastructure
5. Manage storage and file services

Course Content

1. **Deploy and manage Active Directory Domain Services (AD DS) in on-premises and cloud environments**
   - Introduction to AD DS
   - Manage AD DS domain controllers and FSMO roles
   - Implement Group Policy Objects
   - Manage advanced features of AD DS
   - Implement hybrid identity with Windows Server
   - Deploy and manage Azure IaaS Active Directory domain controllers in Azure

2. **Manage Windows Servers and workloads in a hybrid environment**
   - Perform Windows Server secure administration
   - Describe Windows Server administration tools
   - Perform post-installation configuration of Windows Server
   - Administer and manage Windows Server IaaS Virtual Machine remotely
   - Manage hybrid workloads with Azure Arc
   - Perform Just Enough Administration in Windows Server

3. **Manage virtual machines and containers**
   - Configure and manage Hyper-V
   - Configure and manage Hyper-V virtual machines
   - Secure Hyper-V workloads
   - Plan and deploy Windows Server IaaS Virtual Machines
   - Customize Windows Server IaaS Virtual Machine images
   - Automate the configuration of Windows Server IaaS Virtual Machines
   - Run containers on Windows Server

4. **Implement and manage an on-premises and hybrid networking infrastructure**
   - Implement DNS for Windows Server IaaS VMs
   - Implement DHCP
   - Implement Windows Server DNS
   - Implement IP Address Management
   - Implement remote access
   - Implement hybrid network infrastructure
   - Implement Windows Server IaaS VM IP addressing and routing

5. **Manage storage and file services**
   - Manage Windows Server file servers
   - Implement Storage Spaces and Storage Spaces Direct
   - Implement Windows Server Data Deduplication
   - Implement Windows Server iSCSI
   - Implement Windows Server Storage Replica
   - Implement a hybrid file server infrastructure

Assessment Criteria

In order to achieve Learning Outcome…	The Learner must…
1. Deploy and manage Active Directory Domain Services (AD DS) in on-premises and cloud environments	Be able to implement and manage AD DS domain controllers, Group Policy Objects and Azure IaaS AD domain controllers.
2. Manage Windows Servers and workloads in a hybrid environment	Securely administer Windows Server, manage hybrid workloads with Azure Arc and perform Just Enough Administration.
3. Manage virtual machines and containers	Manage Hyper-V, VMs and run containers in Windows Server.
4. Implement and manage an on-premises and hybrid networking infrastructure	Implement DHCP, DNS, IP Address Management and remote access.
5. Manage storage and file services	Implement a hybrid file server infrastructure, Storage Spaces, Storage Spaces Direct and data deduplication.

Essential Learning Resources:

Websites
[Exam AZ-800: Administering Windows Server Hybrid Core Infrastructure - Certifications | Microsoft Docs](#)