

MCSA (Microsoft Certified Solutions Associate) - 40 hours

Microsoft Certified: Windows Server Hybrid Administrator Associate

Module 1: Introduction to Windows Server

- Overview of Windows Server Editions (2016/2019/2022)
- Installing Windows Server (GUI & Server Core)
- Windows Server Roles and Features
- Licensing Models and Activation

Module 2: Active Directory Domain Services (AD DS)

- Introduction to Active Directory
- Installing and Configuring Domain Controllers
- Creating and Managing Users, Groups, and OUs
- Delegation of Control
- Group Policy Basics (GPO creation, inheritance, filtering)

Module 3: Networking with Windows Server

- Configuring IP Settings and DNS
- DHCP Role Configuration
- DNS Server Configuration and Zones
- Routing and Remote Access Service (RRAS)
- Windows Firewall with Advanced Security

Module 4: File and Storage Solutions

- Configuring File Servers and Shares
- NTFS vs ReFS
- Managing Permissions (NTFS + Share)
- Distributed File System (DFS)
- Storage Spaces and iSCSI Target/Initiator

Module 5: Managing Identities with Group Policy

- Advanced Group Policy Management
- Folder Redirection, Logon Scripts
- Software Deployment via GPO
- Security Settings & Password Policies
- Starter GPOs and Administrative Templates

Module 6: Security and Hardening

- Configuring Windows Defender and BitLocker
- User Rights and Audit Policies
- Securing Local Accounts (LAPS)
- Windows Updates and Patch Management (WSUS)
- Secure Boot and TPM

Module 7: High Availability and Disaster Recovery

- Backup and Restore using Windows Server Backup
- Volume Shadow Copy
- Failover Clustering Basics
- Storage Replica Overview
- NIC Teaming and Redundant Paths

Module 8: Virtualization with Hyper-V

- Installing and Managing Hyper-V
- Creating and Configuring VMs
- Virtual Switches and NAT
- Checkpoints and Live Migration
- Nested Virtualization and Integration Services

Module 9: Introduction to Hybrid Cloud & Azure Integration

- Introduction to Azure AD
- Azure AD Connect Basics
- Windows Admin Center Overview
- Using PowerShell for Azure and AD Management

Module 10: Automation and Scripting

- PowerShell Basics for Server Management
- Useful Cmdlets for AD, DNS, DHCP, etc.
- Task Scheduler
- Windows Admin Center and RSAT Tools