



## Installing and Configuring Windows Server

**Description:** The course is part one of a series of three courses that provide the skills and knowledge necessary to implement a core Windows Server infrastructure in an existing enterprise environment. The three courses collectively cover implementing, managing, maintaining, and provisioning services and infrastructure in a Windows Server environment. While there is some cross-over in skill set and tasks across the courses, this course primarily covers the initial implementation and configuration of those core services, such as Active Directory Domain Services (AD DS), networking services, and Hyper-V configuration.

**Credit toward Certification:** When you pass Exam 70-410: Installing and Configuring Windows Server: counts as credit toward the following certification(s): Microsoft Certified Solutions Associate (MCSA): Windows Server.

### Session 1: Deploying and Managing Windows Server

- Windows Server Overview
- Overview of Windows Server Management
- Installing Windows Server
- Post-Installation Configuration of Windows Server
- Introduction to Windows PowerShell

### Session 2: Introduction to Active Directory Domain Services

- Overview of AD DS
- Overview of Domain Controllers
- Installing a Domain Controller

### Session 3: Managing Active Directory Domain Services Objects

- Managing User Accounts
- Managing Group Accounts
- Managing Computer Accounts
- Delegating Administration

### Session 4: Automating Active Directory Domain Services Administration

- Using Command-line Tools for Administration
- Using Windows PowerShell for Administration
- Performing Bulk Operations with Windows PowerShell

### Session 5: Implementing IPv4

- Overview of TCP/IP
- Understanding IPv4 Addressing
- Subnetting and Supernetting
- Configuring and Troubleshooting IPv4

### Session 6: Implementing DHCP

- Installing a DHCP Server Role
- Configuring DHCP Scopes
- Managing a DHCP Database
- Securing and Monitoring DHCP

### Session 7: Implementing DNS

- Name Resolution for Windows Client and Servers
- Installing and Managing a DNS Server
- Managing DNS Zones

### Session 8: Implementing IPv6

- Overview of IPv6
- IPv6 Addressing
- Coexistence with IPv6
- IPv6 Transition Technologies



- Overview of Storage
- Managing Disks and Volumes
- Implementing Storage Spaces

**Session 10: Implementing File and Print Services**

- Securing Files and Folders
- Protecting Shared Files and Folders Using Shadow Copies
- Configuring Network Printing

**Session 11: Implementing Group Policy**

- Overview of Group Policy
- Group Policy Processing
- Implementing a Central Store for Administrative Templates

**Session 12: Securing Windows Servers  
Using Group Policy Objects**

- Windows Security Overview
- Configuring Security Settings
- Restricting Software
- Configuring Windows Firewall with Advanced Security

**Session 13: Implementing Server Virtualization  
with Hyper-V**

- Overview of Virtualization Technologies
- Implementing Hyper-V
- Managing Virtual Machine Storage
- Managing Virtual Networks