

# Course Outline



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## Installing and Configuring Windows Server 2012

### Course Description:

In this course you will install and configure Windows Server 2012, including Windows Server 2012 R2.

This course prepares you for the Microsoft Certified Solutions Associate (MCSA) Exam 410: Installing and Configuring Windows Server 2012, which is the first of three exams required for the MCSA: Windows Server 2012 credential.

### Pre-requisites:

This course is designed for professionals who have some knowledge and experience working with Windows operating systems and who want to acquire the skills and knowledge necessary to install and perform the initial configuration of a Windows Server 2012 or Windows Server 2012 R2 server in an existing Windows server environment.

### Course Content:

- **Deploying and Managing Windows Server 2012**
  - Windows Server 2012 Overview
  - Installing Windows Server 2012
  - Post-Installation Configuration of Windows Server 2012
  - Overview of Windows Server 2012 Management
  - Introduction to Windows PowerShell
- **Introduction to Active Directory Domain Services**
  - Overview of AD DS
  - Overview of Domain Controllers
  - Installing a Domain Controller

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- **Managing Active Directory Domain Services Objects**
  - Managing User Accounts
  - Managing Groups
  - Managing Computer Accounts
  - Delegating Administration
- **Automating Active Directory Domain Services Administration**
  - Using Command-line Tools for AD DS Administration
  - Using Windows PowerShell for AD DS Administration
  - Performing Bulk Operations with Windows PowerShell
- **Implementing IPv4**
  - Overview of TCP/IP
  - Understanding IPv4 Addressing
  - Subnetting and Supernetting
  - Configuring and Troubleshooting IPv4
- **Implementing Dynamic Host Configuration Protocol**
  - Overview of the DHCP Server Role
  - Configuring DHCP Scopes
  - Managing a DHCP Database
  - Securing and Monitoring DHCP
- **Implementing DNS**
  - Name Resolution for Windows Clients and Servers
  - Installing a DNS Server
  - Managing DNS Zones
- **Implementing IPv6**
  - Overview of IPv6
  - IPv6 Addressing
  - Coexistence with IPv4
  - IPv6 Transition Technologies
- **Implementing Local Storage**
  - Overview of Storage
  - Managing Disks and Volumes
  - Implementing Storage Spaces

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- **Implementing File and Print Services**
  - Securing Files and Folders
  - Protecting Shared Files and Folders by Using Shadow Copies
  - Configuring Work Folders
  - Configuring Network Printing
- **Implementing Group Policy**
  - Overview of Group Policy
  - Group Policy Processing
  - Implementing a Central Store for Administrative Templates
- **Securing Windows Servers Using Group Policy Objects**
  - Security Overview for Windows Operating Systems
  - Configuring Security Settings
  - Restricting Software
  - Configuring Windows Firewall with Advanced Security
- **Implementing Server Virtualization with Hyper-V**
  - Overview of Virtualization Technologies
  - Implementing Hyper-V
  - Managing Virtual Machine Storage
  - Managing Virtual Networks

**Course Duration:**

**5 Days**

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