



Price: \$2,195
Length: 35 Hours (5 days)

Introduction: The course is part one of a series of three courses that provide the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment. The three courses collectively cover implementing, managing, maintaining, and provisioning services and infrastructure in a Windows Server 2012 environment. While there is some cross-over in skillset 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.

Target Audience: This course is intended for Information Technology (IT) Professionals who have good Windows operating system knowledge and experience and who want to acquire the skills and knowledge necessary to implement the core infrastructure services in an existing Windows Server 2012 environment. Although students would benefit from having some previous Windows Server experience, they must have good hands-on Windows Client experience with Windows Vista, Windows 7, or Windows 8.

Prerequisites:

- A good understanding of networking fundamentals.
- An understanding and experience configuring security and administration tasks in an enterprise environment.
- Experience supporting or configuring Microsoft Windows clients.

Course Outline

I. Deploying and Managing Windows Server 2012

- A. Windows Server 2012 Overview
- B. Overview of Windows Server 2012 Management
- C. Installing Windows Server 2012
- D. Post-Installation Configuration of Windows Server 2012
- E. Introduction to Windows PowerShell

II. Introduction to Active Directory Domain Services

- A. Overview of AD DS
- B. Overview of Domain Controllers
- C. Installing a Domain Controller

III. Managing Active Directory Domain Services Objects

- A. Managing User Accounts
- B. Managing Group Accounts
- C. Managing Computer Accounts
- D. Delegating Administration

IV. Automating Active Directory Domain Services Administration

- A. Using Command-line Tools for Administration
- B. Using Windows PowerShell for Administration
- C. Performing Bulk Operations with Windows PowerShell

V. Implementing IPv4

- A. Overview of TCP/IP
- B. Understanding IPv4 Addressing
- C. Subnetting and Supernetting
- D. Configuring and Troubleshooting IPv4

VI. Implementing DHCP

- A. Installing a DHCP Server Role
- B. Configuring DHCP Scopes
- C. Managing a DHCP Database
- D. Securing and Monitoring DHCP



VII. Implementing DNS

- A. Name Resolution for Windows Client and Servers
- B. Installing and Managing a DNS Server
- C. Managing DNS Zones

VIII. Implementing IPv6

- A. Overview of IPv6
- B. IPv6 Addressing
- C. Coexistence with IPv6
- D. IPv6 Transition Technologies

IX. Implementing Local Storage

- A. Overview of Storage
- B. Managing Disks and Volumes
- C. Implementing Storage Spaces

X. Implementing File and Print Services

- A. Securing Files and Folders
- B. Protecting Shared Files and Folders Using Shadow Copies
- C. Configuring Network Printing

XI. Implementing Group Policy

- A. Overview of Group Policy
- B. Group Policy Processing
- C. Implementing a Central Store for Administrative Templates

XII. Securing Windows Servers Using Group Policy Objects

- A. Windows Security Overview
- B. Configuring Security Settings
- C. Restricting Software
- D. Configuring Windows Firewall with Advanced Security
- E. Configure Windows Firewall with Advanced Security

XIII. Implementing Server Virtualization with Hyper-V

- A. Overview of Virtualization Technologies
- B. Implementing Hyper-V
- C. Managing Virtual Machine Storage
- D. Managing Virtual Networks