

Course Outline

2277- Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure: Network Services



Duration: 5 days (30 hours)

Learning Objectives:

- Configure routing by using the Routing and Remote Access service.
- Allocate IP addressing by using DHCP.
- Manage and monitor DHCP.
- Resolve names.
- Resolve host names by using DNS.
- Manage and monitor DNS.
- Resolve network basic input/output system (NetBIOS) names by using WINS.
- Secure network traffic by using IPsec and certificates.
- Configure network access.
- Manage and monitor network access.

Target Audience:

This course is intended for individuals who are employed as or seeking employment as a systems administrator or systems engineer.

Topics Covered:

- Configuring Routing by using Routing and Remote Access
 - Multimedia: The Role of Routing in the Network Infrastructure
 - Enabling and Configuring the Routing and Remote Access Service
 - Configuring Packet Filters
 - Identifying and Resolving Common Issues When Configuring Routing and Packet Filters
- Allocating IP Addressing by using Dynamic Host configuration Protocol (DHCP)
 - Multimedia: The Role of DHCP in the Network Infrastructure
 - Adding and Authorizing a DHCP Server Service
 - Configuring a DHCP Scope
 - Configuring a DHCP Reservation
 - Configuring DHCP Options
 - Configuring a DHCP Relay Agent
 - Identifying and Resolving Common Issues When Allocating IP Addressing by Using DHCP
- Managing and Monitoring Dynamic Host Configuration Protocol (DHCP)
 - Managing a DHCP Database
 - Monitoring DHCP
 - Applying Security Guidelines for DHCP

- Managing and Monitoring DHCP
- Resolving Names
 - Multimedia: Introduction to the Name Resolution Process
 - Viewing Names on a Client
 - Configuring Host Name Resolution
 - Configuring NetBIOS Name Resolution
 - Resolving Names
- Resolving Host Names by using domain name system (DNS)
 - Multimedia: The Role of DNS in the Network Infrastructure
 - Installing the DNS Server Service
 - Configuring the Properties for the DNS Server Service
 - Configuring the DNS Zones
 - Configuring DNS Zone Transfers
 - Configuring DNS Dynamic Updates
 - Configuring a DNS Client
 - Delegating Authority for Zones
 - Configuring an Alias Resource Record
 - Configuring a Secondary Forward Lookup Zone
- Managing and Monitoring domain name system (DNS)
 - Configuring the Time-to-Live Value
 - Configuring Aging and Scavenging
 - Integrating DNS and WINS
 - Testing the DNS Server Configuration
 - Verifying that a Resource Record Exists by Using Nslookup, DNSCmd, and DNSLint
 - Monitoring DNS Server Performance
 - Verifying a Record Using NSlookup
 - Configuring and Viewing DNS Debug Logging
- Resolving NetBIOS Names by Using Windows Internet Name Service (WINS)
 - Multimedia: The Role of WINS in the Network Infrastructure
 - Installing and Configuring a WINS Server
 - Managing Records in WINS
 - Configuring WINS Replication
 - Managing the WINS database
 - Resolving WINS Server Configuration Issues
- Securing Network Traffic by Using IPsec and Certificates
 - Implementing IPsec
 - Implementing IPsec with Certificates
 - Monitoring IPsec
 - Configuring IPsec
- Configuring Network Access
 - Introduction to a Network Access Infrastructure
 - Configuring a VPN Connection
 - Configuring a Dial-up Connection
 - Configuring a Wireless Connection
 - Controlling User Access to a Network

- Centralizing Network Access Authentication and Policy Management by Using IAS
- Configuring Network Access
- Managing and Monitoring Network Access
 - Managing the Network Access Services
 - Configuring Logging on a Network Access Server
 - Collecting and Monitoring Network Access Data
- Configuring Microsoft Windows XP for Mobile Computing
 - Configuring Hardware for Mobile Computing
 - Configuring Power Management Options for Mobile Computing
 - Making Files, Folders, and Web Pages Available for Offline Use
 - Monitoring a Remote Access Server