

Course Outline



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Implementing, Managing, & Maintaining a Microsoft Windows 2003 Network Infrastructure: Network Services

Course Description:

This five-day instructor-led course provides students with the knowledge and skills to implement and manage a Microsoft Windows® Server 2003 network infrastructure. The course is intended for systems administrator and systems engineer candidates who are responsible for implementing and managing server networking technologies.

Delegates will learn how to:

- Install and configure routing by using the Routing and Remote Access service
- Install and configure the DHCP Server service
- Manage and monitor DHCP
- Configure host and network basic input/output system (NetBIOS) names resolution
- Install and configure the DNS Server service
- Manage and monitor DNS
- Install, configure, and manage WINS
- Secure IP traffic by using IPSec and certificates
- Implement a network access infrastructure by configuring the connections for virtual, dial-up, and wireless clients
- Manage and monitor remote connections in a network access infrastructure.

This course covers the subject areas covered in Microsoft Course MS2277.

Pre-requisites:

Before attending this course, students must have completed Course - Implementing a Microsoft Windows server 2003 Network Infrastructure: Network Hosts, or have equivalent knowledge and skills.

Course Content:

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- **Configuring Routing by Using Routing and Remote Access**
 - Enable and Configure the Routing and Remote Access Service
 - Configure Packet Filters
- **Allocating IP Addressing by Using Dynamic Host Configuration Protocol (DHCP)**
 - Add and Authorize a DHCP Server Service
 - Configure a DHCP Scope
 - Configure a DHCP Reservation
 - Configure DHCP Options
 - Configure a DHCP Relay Agent
- **Managing and Monitoring Dynamic Host Configuration Protocol (DHCP)**
 - Manage a DHCP Database
 - Monitor DHCP
 - Apply Security Guidelines for DHCP
- **Resolving Names**
 - View Names on a Client
 - Configure Host Name Resolution
 - Configure NetBIOS Name Resolution
- **Resolving Host Names by Using Domain Name System (DNS)**
 - Install the DNS Server Service
 - Configure the Properties for the DNS Server Service
 - Configure DNS Zones
 - Configure DNS Zone Transfers
 - Configure DNS Dynamic Updates
 - Configure a DNS Client
 - Delegate a DNS Client
- **Managing and Monitoring Domain Name System (DNS)**
 - Configure the Time-to-Live Value
 - Configure Aging and Scavenging
 - Integrate DNS with WINS
 - Test the DNS Server Configuration
 - Verify that a Resource Record Exists by Using Nslookup, DNSCmd, and DNSLint
 - Monitor DNS Server Performance

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- **Resolving NetBIOS Names by Using Windows Internet Name Service (WINS)**
 - Install and Configure a WINS Server
 - Manage Records in WINS
 - Configure WINS Replication
 - Manage the WINS Database
- **Securing Network Traffic by Using IPSec and Certificates**
 - Implement IPSec
 - Implement IPSec with Certificates
 - Monitor IPSec
- **Configuring Network Access**
 - Introduction to a Network Access Infrastructure
 - Configure a VPN Connection
 - Configure a Dial-up Connection
 - Configure a Wireless Connection
 - Control User Access to a Network
 - Centralize Network Access Authentication and Policy Management by Using IAS
- **Managing and Monitoring Network Access**
 - Manage the Network Access Services
 - Configure Logging on a Network Access Server
 - Collect and Monitor Network Access Data

Course Duration:

5 Days

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