

Course Outline



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Implementing a Microsoft Windows Server 2003 Network Infrastructure: Network Hosts

Course Description:

The goal of this two-day course is to provide students with the skills and knowledge necessary to configure a Windows-based computer to operate in a Microsoft Windows® Server 2003 networking infrastructure.

Delegates will learn how to:

- Describe the Transmission Control Protocol/Internet Protocol (TCP/IP) protocol architecture
- Convert Internet Protocol (IP) addresses between decimal and binary
- Calculate a subnet mask
- Create subnets
- Configure a host to use a static IP address
- Assign IP addresses in a multiple subnet network
- Describe the IP routing process
- Configure a host to obtain an IP address automatically
- Configure a host so that automatic private IP address configuration is disabled
- Configure a host to use name servers-
- Isolate common connectivity issues.

This course covers the subject areas covered in Microsoft Course MS2276.

Pre-requisites:

Before attending this course, students must have:

Course - Managing a Microsoft Windows server 2003 Environment, or have equivalent knowledge and skills.

Course Content:

- **Reviewing the Suite of TCP/IP Protocols**
- Examine Networking Models
- Monitor Network Connectivity

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- **Assigning IP Addresses in a Multiple Subnet Network**
 - Convert IP Address Number Schemes
 - Determine Valid IP Addresses
 - Calculate Custom Subnet Masks
 - Manage the Routing Table
 - Expand the IP Address Space
- **Configuring a Client IP Address**
 - Assign a Static IP Address
 - Configure a Client for Dynamic IP Addressing
 - Configure a Client with an Alternate TCP/IP Configuration
- **Configuring a Client for Name Resolution**
 - Examine the Name Resolution Process
 - Manage the ARP Cache
 - Configure Static NetBIOS Name Resolution
 - Configuring Static Host Name Resolution
 - Configure Dynamic Name Resolution
 - Examine the Windows Name Resolution Process
- **Isolating Common Connectivity Issues**
 - Use Diagnostic Tools
 - Diagnose Network Problems

Course Duration:

2 Days