



Implementing a MS Windows® Server 2003 Network Infrastructure: Client Network Te

M2276

2 day

Overview :

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

Target Audience :

This course is intended for a Systems Administrator in medium and large organisations.

At the end of the course, delegates will be able 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 using Variable-Length Subnet Mask (VLSM) and Classless Inter-Domain Routing (CIDR).
- 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

Course Content :**Reviewing the Suite of TCP/IP Protocols**

- Overview of the OSI Model
- Overview of the TCP/IP Protocol Suite
- Viewing Frames Using Network Monitor

Assigning IP Addresses in a Multiple Subnet Network

- Assigning IP Addresses
- Creating a Subnet
- Creating Subnets Using VLSM
- Creating Subnets Using CIDR Using IP Routing Tables

Configuring a Client IP Address

- Configuring a Client to Use a Static IP Address
- Configuring a Host to Obtain an IP Address Automatically
- Using Alternate Configuration

Configuring a Client for Name Resolution

- Configuring a Client to Use a Static IP Address
- Resolving Client Names
- Managing the Address Resolution Protocol (ARP) Cache
- Overview of NetBIOS
- Using Static Naming Methods
- Using Dynamic Naming Methods
- Summarizing the Name Resolution Process

Isolating Common Connectivity Issues

- Overview of the OSI Model
- Using Utilities and Tools to Isolate Connectivity Issues
- Lab A: Isolating Common Connectivity Issues
- Exercise 1: Isolating Connectivity Issues
- Exercise 2: Resolving Common Connectivity Issues

Course Prerequisites :

Delegates are required to meet the following prerequisites:

- A+ certification or have equivalent knowledge and skills.
- Network+ certification or have equivalent knowledge and skills.
- Completed course M2274: Managing a Microsoft Windows Server 2003 Environment, or have equivalent knowledge and skills

Testing and Certification :

Recommended as preparation for exam(s):

- This course, along with M2277, is recommended in the preparation for the Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure (Microsoft Exam 70-291)

Follow on Courses :

The following courses are recommended for further study:

- M2277, Imp, Man & Mntg MS Win Server 2003 Network Infrastructure: Network Services

Further Information :

M2276/

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