

Course Outline

2278 - Planning and Maintaining a Microsoft Windows Server 2003 Network Infrastructure



Duration: 5 days (30 hours)

Learning Objectives:

- Plan a TCP/IP physical and logical network
- Plan and troubleshoot a routing strategy
- Plan a Dynamic Host Configuration Protocol (DHCP) strategy
- Optimize and troubleshoot DHCP
- Plan a Domain Name System (DNS) strategy
- Optimize and troubleshoot DNS
- Plan and optimize Windows Internet Naming Service (WINS)
- Plan, optimize, and troubleshoot IPsec network access
- Troubleshoot network access

Target Audience:

- IT professionals and new to Windows Server 2003 network implementation
- Preparing for the Microsoft Certified Systems Engineer (MCSE) certification

Prerequisites:

- Course 2277: Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure: Network Services, or have equivalent knowledge skills

Topics Covered:

- Introducing Windows Server 2003 Network Infrastructure Planning, Tools, and Documentation
 - Introducing the Network Design
 - Planning a Windows Server 2003 Network Infrastructure Project
- Planning and Optimizing a TCP/IP Physical and Logical Network
 - Planning a Functional TCP/IP Solution
 - Evaluating Network Performance
- Planning and Troubleshooting Routing and Switching
 - Selecting Intermediate Devices
 - Planning an Internet Connectivity Strategy
 - Planning Router Communications
 - Troubleshooting TCP/IP Routing
- Planning, Optimizing, and Troubleshooting DHCP
 - Planning a DHCP Strategy
 - Securing a DHCP Solution

- Optimizing DHCP
- Troubleshooting DHCP
- Planning a DNS Strategy
 - Planning DNS Servers
 - Planning a Namespace
 - Planning Zones
 - Planning Zone Replication and Delegation
 - Integrating DNS and WINS
- Optimizing and Troubleshooting DNS
 - Optimizing DNS Servers
 - Troubleshooting Host Name Resolution
- Planning and Optimizing WINS
 - Planning a WINS Solution
 - Identifying WINS Optimization Requirements
 - Optimizing WINS Traffic
- Planning and Troubleshooting IPSec
 - Understanding Default Policy Rules
 - Planning an IPSec Deployment
 - Troubleshooting IPSec Communications
- Planning Network Access
 - Introducing Network Access
 - Selecting Network Access Connection Methods
 - Selecting a Remote Access Policy Strategy
 - Selecting a Network Access Authentication Method
 - Planning a Network Access Strategy
- Troubleshooting Network Access
 - Troubleshooting Network Access Resources
 - Troubleshooting LAN Authentication
 - Troubleshooting Remote Access
- Planning a Windows Server 2003 Network Infrastructure
 - Introducing Planning Documentation
 - Preparing Development and Test Environments
 - Managing and Maintaining the Environment