

Course Outline

Implementing a Microsoft Windows 2000 Network Infrastructure

Other Information	
MS2153	
Days	5
Starting Time	9:00
Finish Time	4:30
Lunch & refreshments are included with this course.	

Introduction

This course is for support professionals who are new to Microsoft Windows 2000 and will be responsible for installing, configuring, managing, and supporting a network infrastructure that uses the Microsoft Windows 2000 Server products. It also provides students with the prerequisite knowledge and skills required for course 2154, Implementing and Administering Microsoft Windows 2000 Directory Services.

MCP Exam

This course will help the student prepare for the following Microsoft Certified Professional exam—

- Exam 70-216, Implementing and Administering a Microsoft Windows 2000 Network Infrastructure

Pre-Requisites

Successful completion of course 2152, Supporting Windows 2000 Professional and Server, or equivalent skills and knowledge, including the ability to:

- Install or upgrade to Windows 2000
- Configure the Windows 2000 environment
- Connect Windows 2000-based client computers to networks
- Create and manage user accounts
- Manage access to resources by using groups
- Manage data by configuring the NTFS file system
- Provide network access to file resources
- Configure and manage disks and partitions
- Monitor and optimize Windows 2000
- Implement Windows 2000 security
- Configure printing
- Configure Windows 2000 for mobile computing
- Implement disaster protection
- Install and configure Terminal Services
- Implement Windows 2000-based client computers
- Implement Windows 2000-based servers
- An understanding of Transmission Control Protocol/Internet Protocol (TCP/IP)



Learning Solutions



NATIONALLY RECOGNISED
TRAINING

Ph: 1300 TO TRAIN
1300 86 87246

Course Outline (Continued)

Day 1

Ø Module 1—Introduction to Microsoft Windows 2000 Networking Infrastructure

- Overview of the Windows 2000 Network Infrastructure
- Introduction to Intranets
- Identifying Remote Access Methods
- Communicating with Remote Offices
- Providing Internet Access
- Introduction to Extranets

Ø Module 2—Automating Internet Protocol (IP) Address Assignment

- Overview of DHCP
- Installing the DHCP Service
- Authorizing the DHCP Service
- Creating and Configuring a Scope
- Customizing DHCP Functionality
- Configuring DHCP in a Routed Network
- Supporting DHCP

Labs

- Creating and Authorizing a DHCP Server
- Configuring a DHCP Scope

Ø Module 3—Implementing Name Resolution Using DNS

- Overview of the DNS Query Process
- Installing the DNS Server Service
- Configuring Name Resolution for Client Computers
- Creating Zones
- Configuring Zones
- Configuring DNS for Internal Use
- Integrating DNS and DHCP
- Maintaining and Troubleshooting DNS Servers

Labs

- Installing and Configuring the DNS Server Service
- Maintaining and Troubleshooting a DNS Server

Day 2

Ø Module 4—Implementing Name Resolution by Using WINS

- Connecting to NetBIOS-Based Networks
- WINS Overview
- Configuring WINS Servers and Clients

Course Outline (Continued)

- Configuring Support for Non-WINS Clients
- Enabling WINS Database Replication
- Maintaining the WINS Server Database

Lab

- Installing and Configuring WINS

Ø Module 5—Configuring Network Security by Using Public Key Infrastructure

- Introduction to Public Key Infrastructure (PKI)
- Deploying Certificate Services
- Using Certificates
- Managing Certificates
- Configuring Active Directory for Certificates
- Troubleshooting Certificate Services

Lab

- Installing and Configuring Certificate Services

Ø Module 6—Configuring Network Security by Using IPSec

- Introduction to IPSec
- Implementing IPSec
- Configuring TCP/IP for Server Security
- Troubleshooting Network Protocol Security

Lab

- Configuring TCP/IP for Secure Connections by Using IPSec

Day 3

Ø Module 7—Configuring Remote Access

- Examining Remote Access in Windows 2000
- Configuring Inbound Connections
- Configuring Outbound Connections
- Configuring Multilink Connections
- Configuring Authentication Protocols
- Configuring Encryption Protocols
- Configuring Routing and Remote Access for DHCP Integration

Lab

- Configuring a VPN Connection

Ø Module 8—Supporting Remote Access to a Network

- Examining Remote Access Policies
- Examining Remote Access Policy Evaluation
- Creating a Remote Access Policy
- Troubleshooting Remote Access

Course Outline (Continued)

Labs

- Creating a Remote Access Policy and Profile
- Troubleshooting Remote Access

Ø Module 9—Extending Remote Access Capabilities by Using IAS

- Introduction to IAS
- Installing and Configuring IAS

Lab

- Configuring Internet Authentication Service

Day 4

Ø Module 10—Configuring a Windows 2000–Based Server As a Router

- Overview of Routers and Routing Tables
- Configuring Network Connections
- Enabling Routing by Using Routing and Remote Access
- Configuring Static Routes
- Configuring a Routing Interface
- Implementing Demand-Dial Routing
- Configuring the Routing Information Protocol

Labs

- Configuring Windows 2000 As a Static Router
- Configuring a Windows 2000–Based Router

Ø Module 11—Configuring Internet Access for a Network

- Options for Connecting a Network to the Internet
- Configuring Internet Access by Using a Router
- Configuring Internet Access by Using NAT

Lab

- Configuring Internet Access by Using NAT

Ø Module 12—Configuring a Web Server

- Overview of Microsoft Internet Information Services (IIS)
- Preparing for an IIS Installation
- Installing IIS
- Configuring a Web Site
- Administering IIS
- Troubleshooting IIS

Lab

- Configuring a Web Server

Course Outline (Continued)

Day 5

Ø Module 13—Deploying Windows 2000 Professional by Using RIS

- RIS Overview
- Installing and Configuring RIS
- Configuring Remote Installation Options
- Deploying Images by Using RIS
- Creating an RIPrep Image
- Comparing CD-Based Images and RIPrep Images
- Identifying Solutions to RIS Problems

Lab

- Deploying Windows 2000 Professional by Using Remote Installation Services

Ø Module 14—Managing a Windows 2000 Network

- Windows 2000 Administrative Strategies
- Performing Administrative Tasks Remotely by Using Terminal Services
- Simple Network Management Protocol (SNMP) Operation
- Implementing the Windows 2000 SNMP Service

Lab

- Managing a Windows 2000 Network

Ø Module 15—Troubleshooting Windows 2000 Network Services

- Troubleshooting Network Problems
- Identifying the Symptoms and Causes of Network Problems
- Resolving TCP/IP Problems
- Resolving Name Resolution Problems
- Troubleshooting Network Services
- Monitoring the Network

Labs

- Troubleshooting Routing
- Troubleshooting Network Problems by Using Network Monitor

Ø Module 16—Configuring Network Connectivity Between Operating Systems

- Configuring Access to NetWare Resources
- Providing Macintosh Users Access to Windows 2000 Resources
- Connecting to Systems Network Architecture (SNA) Hosts by Using Host Integration Server 2000
- Connecting to UNIX Resources

Labs

- Configuring Gateway Service for NetWare
- Configuring File Services and Print Services for Macintosh