

CANADA COLLEGE

COLLÈGE CANADA



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Duration:

210 h Theory and practice with Microsoft certified instructors.

210 h Laboratory assigned practices and individual network setup.

Fees:

Registration fee: \$50.00

Tuition fee: \$3400.00

MCSEs are advanced-level network support professionals qualified to plan, implement and maintain Microsoft information systems in a wide range of

computing environments. Certification is achieved by passing seven exams. We offer the seven courses which map to these exams in a continuous series during the day or after-hours.

Core Exams (5 Exams Required)

- **Four operating system exams.** Candidates must pass one exam from each set of operating system exams—client operating system and networking system—in the table that follows.
- **One design exam.** Candidates must pass one exam that provides proof of expertise for design skills for specific Microsoft server technologies.

Elective Exams (2 Exams Required)

- The elective exams provide a valid and reliable measure of technical proficiency and expertise in solution design and implementation. MCSE candidates should also have at least one year of experience implementing and administering a network operating system, implementing and administering a client operating system, and designing a network infrastructure. Individuals who earned the MCSE certification on Windows NT® 4.0 by February 28, 2001 remain certified. To learn more about changes in the certification policy, see the [Microsoft Enhances Its Certification Program](#) page.

MCSE Course Outline Windows 2003

MOC2151 - Microsoft Windows 2000/2003 Network and Operating System Essentials

This course is to provide individuals who are new to Microsoft Windows 2000/2003 with the knowledge necessary to understand and identify the tasks involved in supporting Windows 2000/2003 networks. This is an introductory course designed to provide an overview of networking concepts and how they are implemented in Windows 2000/2003.

Overview

Module 1: Introduction to Windows 2000/2003 and Networking

- Windows 2000/2003 Operating Systems
- Introduction to Networks
- Windows 2000/2003 Implementation of Networking
- Review

Module 2: Administration of a Windows 2000/2003 Network

- Windows 2000/2003 Help
- Administrative Tasks
- Administrative Tools
- Review

Module 3: Securing a Windows 2000/2003 Network

- User Accounts
- User Rights
- Permissions
- Review

Module 4: Examining the Network

- Scope of Networks
- Basic Connectivity Components
- Network Topologies
- Network Technologies
- Expanding the Network
- Review

Module 5: Examining Network Protocols

- Introduction to Protocols
- Protocols and Data Transmissions
- Common Protocols
- Other Communication Protocols
- Remote Access Protocols
- Review

Module 6: Examining TCP/IP

- Introduction to TCP/IP
- TCP/IP Protocol Suite
- Name Resolution
- Examining the Data Transfer Process
- Routing Data
- Review

Module 7: Examining IP Addressing

- Classful IP Addressing
- Subnetting a Network
- Planning IP Addressing
- Assigning TCP/IP Addresses
- Review

Module 8: Optimizing IP Address Allocation

- Classless Inter-Domain Routing (CIDR)
- Binary Subnet Masks
- IP Address Allocation Using CIDR
- Review

Module 9: Examining Web Services

- Identifying Internet Concepts
- Using Client Technologies
- Connecting to the Internet
- Identifying Web Server Concepts
- Review

MOC2152 - Implementing Windows Professional and Server

This course provides students with the knowledge and skills necessary to install and configure Microsoft Windows 2000/XP on stand-alone and client computers that are part of a workgroup or domain. In addition, this course provides the skills and knowledge necessary to install and configure Windows 2000/2003 Server to create file, print, Web, and Terminal servers.

Overview

Module 1: Installing or Upgrading to Windows 2000

- Preparing for Installation
- Installing Windows 2000/XP from a Compact Disc
- Installing Windows 2000 Advanced Server from a Compact Disc
- Upgrading to Windows 2000/XP
- Upgrading to Windows 2000 Advanced Server
- Identifying Setup Errors
- Review

Module 2: Configuring the Windows 2000/2003 Environment

- Configuring and Managing Hardware
- Configuring Display Options
- Configuring System Settings
- Configuring the Desktop Environment
- Configuring Internet Options for Client Computers
- Review

Module 3: Connecting Windows 2000/2003-based Clients to Networks

- Windows 2000/2003 Connectivity
- Connecting to a Microsoft Network
- Connecting to a Novell Netware Network
- Review

Module 4: Creating and Managing User Accounts

- Introduction to User Accounts
- Guidelines for New User Accounts
- Creating Local User Accounts
- Creating and Configuring Domain User Accounts
- Managing User Data by Creating Home Folders
- Setting Properties for Domain User Accounts
- Customizing User Settings with User Profiles
- Best Practices
- Review

Module 5: Managing Access to Resources by Using Groups

- Introduction to Windows 2000/2003 Groups

- Groups in Workgroups and Domains
- Implementing Groups in a Workgroup
- Implementing Groups in a Domain
- Best Practices
- Review

Module 6: Managing Data by Using NTFS

- Introduction to NTFS Permissions
- How Windows 2000/2003 Applies NTFS Permissions
- Using NTFS Permissions
- Using Special NTFS Permissions
- Compressing Data on an NTFS Partition
- Compressing Disk Quotas on NTFS Partitions
- Securing Data by Using EFS
- Review

Module 7: Providing Network Access to File Resources

- Introduction to Shared Folders
- Creating Shared Folders
- Using Administrative Shared Folders
- Publishing a Shared Folder in Active Directory
- Configuring Shared Folders by Using Dfs
- Review

Module 8: Monitoring and Optimizing Performance in Windows 2000/2003

- Monitoring Event Logs
- Using Task Manager to Monitor System Resources
- Using System Monitor to Monitor System Performance
- Optimizing Performance
- Review

Module 9: Implementing Security in Windows 2000/2003

- Configuring Desktops and Services by Using Security Policies
- Auditing Access to System Resources
- Review

Module 10: Configuring Printing

- Introduction to Windows 2000/2003 Printing
- Adding a Printer
- Configuring a Network Printer
- Internet Printing
- Review

Module 11: Configuring Windows 2000/2003 for Mobile Computing

- Configuring Hardware for Mobile Computing
- Configuring Power Management Options for Mobile Computing
- Making Files Available for Offline Use
- Connecting to Network and Computers
- Identifying Solutions to Mobile Computing Problems
- Review

Module 12: Configuring and Managing Disks

- Windows 2000/2003 Disk Types
- Creating Volumes on a Dynamic Disk
- Performing Common Disk Management Tasks
- Best Practices
- Review

Module 13: Implementing Disaster Protection

- Introduction to Disaster Protection
- Configuring an Uninterruptible Power Supply
- Implementing Fault Tolerance by Using RAID
- Backing up and Restoring Data
- Using Disaster Recovery Tools
- Review

Module 14: Installing and Configuring Terminal Services

- Introduction to Terminal Services
- Planning the Installation
- Installing Terminal Services
- Configuring Terminal Services
- Establishing a Terminal Session
- Configuring Session Settings
- Installing Applications on a Terminal Server
- Review

Module 15: Implementing Windows 2000/2003 Clients

- Deploying Windows 2000/2003
- Performing a Manual Network Installation
- Customizing Installations and Upgrades by Using Switches
- Installing Windows 2000/2003 Using the Setup Manager Wizard
- Using Disk Duplication
- Installing Windows 2000/2003 Using RIS
- Troubleshooting Windows 2000/2003 Setup
- Review

Module 16: Implementing Windows 2000/2003-based Servers

- Common Implementation Features
- Implementing a File Server
- Implementing a Print Server
- Implementing an Application Server
- Implementing a Web Server
- Routine Administration Tasks
- Review

Note: Course MOC2151 and MOC2152 in combination prepares the student to write the following core exam:

70-210 -Installing, Configuring and Administrating Microsoft Windows 2000 Professional

70-215 -Installing, Configuring, and Administering Microsoft Windows 2000/2003 Server

MOC2153 - Implementing a Network Infrastructure Using Microsoft Windows 2000/2003

This course is for support professionals who are new to Microsoft Windows 2000/2003 and will be responsible for installing, configuring, managing, and supporting a network infrastructure that uses the Microsoft Windows 2000/2003 Server products.

Overview

Module 1: Introduction to the Microsoft Windows 2000/2003 Networking Infrastructure

- Overview of the Windows 2000/2003 Network Infrastructure
- Introduction to Intranets
- Identifying Remote Access Methods
- Communicating with Remote Offices
- Providing Internet Access
- Introduction to Extranets
- Review Questions

Module 2: Automating IP Address Assignment by Using DHCP

- 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
- Review Questions

Module 3: Implementing Name Resolution by Using DNS

- Basics of the Domain Name System (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
- Review Questions

Module 4: Implementing Name Resolution by Using WINS

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

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

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
- Review Questions

Module 6: Configuring Network Security by Using IPSec

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

Module 7: Configuring Remote Access

- Examining Remote Access in Windows 2000/2003
- Configuring Inbound Connections
- Configuring Outbound Connections
- Configuring Multilink Connections
- Configuring Authentication Protocols
- Configuring Encryption Protocols
- Configuring Routing and Remote Access for DHCP Integration
- Review Questions

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
- Review Questions

Module 9: Extending Remote Access Capabilities by Using IAS

- Introduction to IAS
- Installing and Configuring IAS
- Review Questions

Module 10: Configuring a Windows 2000/2003-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
- Review Questions

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
- Review Questions

Module 12: Configuring a Web Server

- Overview of IIS
- Preparing for an IIS Installation
- Installing IIS
- Configuring a Web Site
- Administering IIS
- Troubleshooting IIS
- Review Questions

Module 13: Deploying Windows 2000/XP 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
- Review Questions

Module 14: Managing a Windows 2000/2003 Network

- Windows 2000/2003 Administrative Strategies
- Performing Administrative Tasks Remotely by Using Terminal Service
- SNMP Operation
- Implementing the Windows 2000/2003 SNMP Service
- Review Questions

Module 15: Troubleshooting Windows 2000/2003 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
- Installing Network Monitor
- The Network Monitor Interface
- Review Questions

Module 16: Configuring Network Connectivity Between Operating Systems

- Configuring Access to Netware Resources
- Providing MacIntosh Users Access to Windows 2000/2003 Resources
- Connecting to SNA Hosts by Using Host Integration Server 2000
- Connecting to UNIX Resources
- Review Questions

Note: - Course MOC2153 prepares students to write elective exam:
70-216 - Implementing and Administering a Microsoft Windows 2000/2003
Network Infrastructure.

MOC2154 - Implementing and Administering Windows 2000/2003 Directory Services

This course is designed to provide students with the knowledge and skills necessary to install, configure, and administer Microsoft Windows 2000/2003 Active Directory services. The course also focuses on implementing Group Policy and performing the Group Policy-related tasks that are required to centrally manage users and computers.

Overview

Module 1: Introduction to Active Directory in Windows 2000/2003

- Introduction to Active Directory
- Active Directory Logical Structure
- Active Directory Physical Structure
- Methods for Administering a Windows 2000/2003 Network
- Review Questions

Module 2: Implementing DNS to Support Active Directory

- Introduction to the Role of DNS in Active Directory
- DNS and Active Directory
- DNS Name Resolution in Active Directory
- Active Directory Integrated Zones
- Installing and Configuring DNS to Support Active Directory
- Best Practices
- Review Questions

Module 3: Creating a Windows 2000/2003 Domain

- Introduction to Creating a Windows 2000/2003 Domain
- Installing Active Directory
- The Active Directory Installation Process
- Examining the Default Structure of Active Directory
- Performing Post Active Directory installation tasks
- Implementing an Organizational Unit Structure
- Troubleshooting the Installation of Active Directory
- Removing Active Directory
- Best Practices
- Review Questions

Module 4: Setting Up and Administering Users and Groups

- Introduction to User Accounts and Groups
- User Logon Names
- Creating Multiple User Accounts
- Administering User Accounts
- Using Groups in Active Directory
- Strategies for Using Groups in a Domain

- Troubleshooting Domain User accounts and Groups
- Best Practices
- Review Questions

Module 5: Publishing Resources in Active Directory

- Introduction to Publishing Resources
- Setting Up and Administering Published Printers
- Implementing Printer Locations
- Setting Up and Administering Public Shared Folders
- Comparing Published Objects with Shared Resources
- Troubleshooting Published Resources
- Best Practices
- Review Questions

Module 6: Delegating Administrative Control

- Object Security in Active Directory
- Controlling Access of Active Directory Objects
- Delegating Administrative Control of Active Directory Objects
- Customizing MMC Consoles
- Setting up Taskpads
- Best Practices
- Review Questions

Module 7: Implementing Group Policy

- Introduction to Group Policy
- Group Policy Structure
- Working with Group Policy Objects
- How Group Policy Settings are applied in Active Directory
- Modifying Group Policy Inheritance
- Delegating Administrative control of Group Policy
- Monitoring and Troubleshooting Group Policy
- Best Practices
- Review Questions

Module 8: Using Group Policy to Manage User Environments

- Introduction to Managing User Environments
- Introduction to Administrative Templates
- Using Administrative Templates in Group Policy
- Assigning Scripts with Group Policy
- Using Group Policy to Redirect Folders
- Using Group Policy to Secure the User Environment
- Troubleshooting User Environment Management
- Best Practices
- Review Questions

Module 9: Using Group Policy to Manage Software

- Introduction to Managing Software Deployment
- Windows Installer
- Deploying Software
- Configuring Software Deployment
- Maintaining Deployed Software
- Removing Deployed Software
- Troubleshooting Software Deployment
- Best Practices
- Review Questions

Module 10: Creating and Managing Trees and Forests

- Introduction to Trees and Forests
- Creating Trees and Forests
- Trust Relationships in Trees and Forests
- The Global Catalog
- Strategies for Using Groups in Trees and Forests
- Troubleshooting Creating and Managing Trees and Forests
- Best Practices
- Review Questions

Module 11: Managing Active Directory Replication

- Introduction to Active Directory Replication
- Replication Components and Processes
- Replication Topology
- Using Sites to Optimize Active Directory Replication
- Implementing Sites to Manage Active Directory Replication
- Monitoring Replication Traffic
- Adjusting Replication
- Troubleshooting Active Directory Replication
- Best Practices
- Review Questions

Module 12: Managing Operations Masters

- Introduction to Operations Masters
- Operations Master Roles
- Managing Operations Master Roles
- Managing Operations Master Failures
- Best Practices
- Review Questions

Module 13: Maintaining the Active Directory Database

- Introduction to Maintaining the Active Directory Database
- The Process of Modifying Data in Active Directory

- The Garbage Collection Process
- Backing Up Active Directory
- Restoring Active Directory
- Moving the Active Directory Database
- Defragmenting the Active Directory Database
- Best Practices
- Review Questions

Module 14: Implementing an Active Directory Infrastructure

- Implementing an Active Directory Infrastructure

MOC1561 - Designing a Microsoft Windows 2000/2003 Directory Services Infrastructure

This course provides students with the knowledge and skills necessary to design a Microsoft Windows 2000/2003 directory services infrastructure in an enterprise network. Strategies are presented to assist the student in identifying the information technology needs of an organization, and then designing an Active Directory structure that meets those needs.

Overview

Module 1: An Overview of Microsoft Windows 2000/2003 Active Directory Directory Services

- Role of Active Directory in an Enterprise
- Conducting an Organizational Analysis
- Architectural Elements of Active Directory
- Review Questions

Module 2: Designing an Active Directory Naming Strategy

- Identifying Business Needs
- DNS and Active Directory
- Review Questions

Module 3: Designing Active Directory to Delegate Administrative Authority

- Identifying Business Needs
- Characterizing the IT Organization
- Developing a Strategy for Administrative Design
- Developing a Strategy for Delegation
- Review Questions

Module 4: Designing a Schema Policy

- Identifying Business Needs
- Schema Fundamentals
- Implications of Modifying the Schema
- Planning for Schema Modification
- Review Questions

Module 5: Designing Active Directory to Support Group Policy

- Identifying Business Needs
- Applying Group Policy in Active Directory
- Review Questions

Module 6: Designing an Active Directory Domain

- Identifying Business Needs

- Designing the Initial Active Directory Domain
- Planning for Security Groups
- Discussion: Designing Security Groups
- Planning for OUs
- Review Questions

Module 7: Designing a Multiple Domain Structure

- Identifying Business Needs
- Accessing Resources Between Domains
- Review Questions

Module 8: Designing an Active Directory Site Topology

- Using Sites in Active Directory
- Factors Affecting Replication
- Assessing the Need for Active Directory Sites
- Using Site Links in a Network
- Planning the Inter-Site Replication Topology
- Planning for Server Placement in Sites
- Review Questions

Module 9: Designing an Active Directory Infrastructure

- Conducting an Organizational Analysis
- Designing an Active Directory Structure
- Creating a Functional Specification
- Review Questions

Note: Course MOC1561 prepares students to write exam:

70-219* - Designing and Implementing Data Warehouse with Microsoft SQL Server 7.0

MOC2150 - Designing a Secure Microsoft Windows 2000/2003 Network

This course provides students with the knowledge and skills necessary to design a security framework for small, medium, and enterprise networks by using Microsoft Windows 2000/2003 technologies.

Overview

Module 1: Assessing Security Risks

- Overview
- Identifying Risks to Data
- Identifying Risks to Services
- Identifying Potential Threats
- Introducing Common Security Standards
- Planning Network Security
- Review

Module 2: Introducing Windows 2000/2003 Security

- Overview
- Introducing Security Features in Active Directory
- Authenticating User Accounts
- Securing Access to Resources
- Introducing Encryption Technologies
- Encrypting Stored and Transmitted Data
- Introducing Public Key Infrastructure Technology
- Review

Module 3: Planning Administrative Access

- Overview
- Determining the Appropriate Administrative Model
- Designing Administrative Group Strategies
- Planning Local Administrative Access
- Planning Remote Administrative Access
- Review

Module 4: Planning User Accounts

- Overview
- Designing Account Policies and Group Policy
- Planning Account Creation and Location
- Planning Delegation of Authority
- Auditing User Account Actions
- Review

Module 5: Securing Windows 2000/2003-based Computers

- Overview
- Planning Physical Security for Windows 2000/2003-based Computers
- Evaluating Security Requirements
- Designing Security Configuration Templates
- Evaluating Security Configuration
- Deploying Security Configuration Templates
- Review

Module 6: Securing File and Print Resources

- Overview
- Examining Windows 2000/2003 File System Security
- Protecting Resources Using DACLs
- Encrypting Data Using EFS
- Auditing Resources Access
- Securing Backup and Restore Procedures
- Protecting Data From Viruses
- Review

Module 7: Securing Communication Channels

- Overview
- Assessing Network Data Visibility Risks
- Designing Application-Layer Security
- Designing IP-Layer Security
- Deploying Network Traffic Encryption
- Review

Module 8: Providing Secure Access to Non-Microsoft Clients

- Overview
- Providing Secure Network Access to UNIX Clients
- Providing Secure Network Access to NetWare Clients
- Providing Secure Access to Macintosh Clients
- Securing Network Services in a Heterogeneous Network
- Monitoring for Security Breaches
- Review

Module 9: Providing Secure Access to Remote Users

- Overview
- Identifying the Risks of Providing Remote Access
- Designing Security for Dial-Up Connections
- Designing Security for VPN Connections
- Centralizing Remote Access Security Settings
- Review

Module 10: Providing Secure Access to Remote Offices

- Overview
- Defining Private and Public Networks
- Securing Connections Using Routers
- Securing VPN Connections Between Remote Offices
- Identifying Security Requirements
- Review

Module 11: Providing Secure Network Access to Internet Users

- Overview
- Identifying Potential Risks From the Internet
- Using Firewalls to Protect Network Resources
- Using Screened Subnets to Protect Network Resources
- Securing Public Access to a Screened Subnet
- Review

Module 12: Providing Secure Internet Access to Network Users

- Overview
- Protecting Internal Network Resources
- Planning Internet Usage Policies
- Managing Internet Access Through Proxy Server Configuration
- Managing Internet Access Through Client-Side Configuration
- Review

Module 13: Extending the Network to Partner Organizations

- Overview
- Providing Access to Partner Organizations
- Securing Applications Used by Partners
- Securing Connections Used by Remote Partners
- Structuring Active Directory to Manage Partner Accounts
- Authenticating Partners from Trusted Domains
- Review

Module 14: Designing a Public Key Infrastructure

- Overview
- Introducing a Public Key Infrastructure
- Using Certificates
- Examining the Certificate Life Cycle
- Choosing a Certification Authority
- Planning a Certification Authority Hierarchy
- Mapping Certificates to User Accounts
- Managing CA Maintenance Strategies
- Review

Module 15: Developing a Security Plan

- Overview
- Designing a Security Plan
- Defining Security Requirements
- Maintaining the Security Plan
- Review

70-220* - Designing Security for a Microsoft Windows 2000/2003 Network

MOC1562 - Designing a Microsoft Windows 2000/2003 Networking Services Infrastructure

This course provides students with the information and skills needed to create a networking services infrastructure design that supports the required network applications. Each module provides a solution based on the needs of the organization. Some Microsoft Windows 2000/2003 network solutions require a single technology, such as DHCP, to provide Internet Protocol (IP) address configuration support. In other situations, several technology options exist, such as Open Shortest Path First (OSPF), Routing Information Protocol (RIP), and Internet Group Management Protocol (IGMP), to design an IP routing scheme.

Module 1: Microsoft Windows 2000/2003 Networking Services Infrastructure Overview

- Overview
- Introduction to Networking Services Design
- Microsoft Windows 2000/2003 Networking Services
- Translating Organizational Goals into a Design
- Review

Module 2: TCP/IP as a Solution for Networking

- Overview
- Introducing TCP/IP
- Designing a Functional TCP/IP Solution
- Securing a TCP/IP Solution
- Enhancing a TCP/IP Design for Availability
- Optimizing a TCP/IP Design for Performance
- Review

Module 3: DHCP as a Solution for IP Configuration

- Overview
- Introducing DHCP
- Designing a Functional DHCP Solution
- Securing a DHCP Solution
- Enhancing a DHCP Design for Availability
- Enhancing a DHCP Design for Performance
- Review

Module 4: DNS as a Solution for Name Resolution

- Overview
- Introducing DNS
- Designing a Functional DNS Solution
- Discussion: Designing DNS Solutions

- Securing DNS
- Enhancing a DNS Design for Availability
- Optimizing a DNS Design for Performance
- Discussion: Enhancing DNS Solutions
- Review

Module 5: WINS as a Solution for NetBIOS Name Resolution

- Overview
- Introducing WINS
- Designing a Functional WINS Solution
- Securing a WINS Solution
- Enhancing a WINS Design for Availability
- Optimizing a WINS Design for Performance
- Review

Module 6: NAT as a Solution for Internet Connectivity

- Overview
- Introducing NAT
- Designing a Functional NAT Solution
- Securing a NAT Solution
- Enhancing a NAT Design for Availability and Performance
- Discussion: Enhancing a NAT Solution
- Review

Module 7: Microsoft Proxy Server 2.0 as a Solution for Internet Connectivity

- Overview
- Introducing Proxy Server
- Designing a Functional Proxy Server Solution
- Securing a Proxy Server Solution
- Enhancing a Proxy Server Design for Availability
- Optimizing a Proxy Server Design for Performance
- Review

Module 8: Routing as a Solution for Private Network Connectivity

- Overview
- Introducing Routing
- Designing a Functional Routing Solution
- Discussion: Designing Routing Solutions
- Securing Private Network Connections
- Enhancing a Routing Design for Availability and Performance
- Discussion: Enhancing Routing Solutions
- Review

Module 9: Remote User Connectivity

- Overview
- Introducing Routing and Remote Access
- Designing a Functional Remote Access Solution
- Securing a Remote Access Solution
- Enhancing a Remote Access Design for Availability
- Optimizing a Remote Access Design for Performance
- Review

Module 10: RADIUS as a Solution for Remote Access

- Overview
- Introducing RADIUS
- Designing a Functional RADIUS Solution
- Securing a RADIUS Solution
- Enhancing a RADIUS Design for Availability
- Optimizing a RADIUS Design for Performance
- Discussion: Enhancing the RADIUS Solution
- Review

Module 11: Windows 2000/2003 Network Services Management

- Overview
- Defining Management Strategies
- Identifying Management Processes
- Generating Information on the Status of the Services
- Demonstration: Scripting
- Analyzing the Collected Data
- Selecting Response Strategies
- Review

Module 12: Strategies for Combining Networking Services

- Overview
- Benefits of Combining Services
- Constraints of Combining Services
- Securing a Design by Combining Services
- Discussion: Combining Networking Services
- Enhancing Availability by Combining Services
- Optimizing Performance by Combining Services
- Discussion: Enhancing Combined Services Solutions
- Review

Module 13: Networking Service Designs

- Overview
- Evaluating the Existing Configuration
- Identifying the Essential Design Decisions

- Providing Security
- Enhancing the Availability and Performance
- Review

Note: Course MOC1562 prepares students to write core exam:

70-221* - Designing a Microsoft Windows 2000/2003 Network Infrastructure

Note: Exams marked with * may be used as elective or core exams. However, one exam will not count as both a required core and an elective in the MCSE credential.