

Courses Breakdown

Technical MCSE

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Exchange 2000 Administration MCSE 70-224 Series

Total Time: 23 hours

Exchange 2000 Administration MCSE 70-224: Installation and Coexistence

3 hours

E22401

Exchange 2000 Administration MCSE 70-224: Installation and Coexistence will teach users how to install Exchange 2000 and integrate it with their present systems.

Exchange 2000 Administration MCSE 70-224: Creating and Managing Recipient Objects

3 hours

E22402

Exchange 2000 Administration MCSE 70-224: Creating and Managing Recipient Objects will teach users how to create and manage recipient objects in Exchange 2000.

Exchange 2000 Administration MCSE 70-224: Creating and Managing Groups and Connectors

4 hours

E22403

Exchange 2000 Administration MCSE 70-224: Creating and Managing Groups and Connectors will teach users how to configure the administrative groups and routing groups that organize servers for fast, reliable message transfer.

Exchange 2000 Administration MCSE 70-224: Deploying Instant Messaging

2 hours

E22404

Exchange 2000 Administration MCSE 70-224: Deploying Instant Messaging will teach users how to install and administer Exchange 2000 Instant Messaging.

Exchange 2000 Administration MCSE 70-224: Administering the Chat Service

2 hours

E22405

Exchange 2000 Administration MCSE 70-224: Administering the Chat Service will teach users how to install and configure Exchange 2000 Chat Service.

Exchange 2000 Administration MCSE 70-224: Working with Clients **2 hours** **E22406**

Exchange 2000 Administration MCSE 70-224: Working with Clients will teach you how to choose protocols for your Exchange 2000 system, create and configure virtual servers, and troubleshoot Exchange 2000.

Exchange 2000 Administration MCSE 70-224: Using Public Folders **2 hours** **E22407**

Exchange 2000 Administration MCSE 70-224: Using Public Folders will teach users how to install Exchange 2000 and integrate it with their present systems.

Exchange 2000 Administration MCSE 70-224: Security and Performance **3 hours** **E22408**

Exchange 2000 Administration MCSE 70-224: Security and Performance will teach you how to use the advanced security features of Exchange 2000, as well as how to monitor your system using the tools provided by Windows 2000 and Exchange 2000.

Exchange 2000 Administration MCSE 70-224: Backing Up Data **2 hours** **E22409**

Exchange 2000 Administration MCSE 70-224: Backing Up Data will teach users how to backup and restore Exchange 2000 using the updated backup utility that comes with Exchange 2000.

Exchange Server 4.0 Series

Total Time: 20 hours

The four courses in this series are targeted at system administrators and managers and focus on everything from the basics of Microsoft Exchange 4.0 to installation and configuration issues to managing and troubleshooting an Exchange Server system

Recommended Prerequisite

Exchange 4.0: Using Microsoft Exchange

2 hours

EXCTC1

Using Microsoft Exchange 4.0 shows users how to use Microsoft Exchange to get and send mail, share files and manage their time with a scheduling program.

- Viewing Mail and Folders
- Sending and Receiving Messages
- Creating and Managing Folders
- Working Offsite
- Using Schedule+

Exchange Server 4.0: Planning

4 hours

EXCTC2

Planning for MS Exchange Server 4.0 presents the issues to be considered and the decisions to be made before installing a Microsoft Exchange Server system.

- Introducing Microsoft Exchange Server
- Mastering the Concepts
- Ascertaining Needs
- Deciding on Hardware
- Planning for E-Mail Migration

Exchange Server 4.0: Installing and Configuring

6 hours

EXCTC3

Installing and Configuring MS Exchange Server 4.0 provides step-by-step instructions for installing and configuring the components that make up a Microsoft Exchange Server system.

- Installing Exchange Server
- Configuring Sites
- MS Mail and Internet Connections
- Replication and Synchronization
- Migrating Mailboxes
- Key Management Server

Exchange Server 4.0: Administering and Managing

8 hours

EXCTC4

Administering and Managing MS Exchange Server 4.0 provides detailed instructions for the many tasks involved in managing and troubleshooting an Exchange Server system.

- Mailbox Administration
- Administering the Core Components
- Backing Up and Restoring
- Monitoring Events
- Maintaining Client Services
- Application Development
- Administering Custom Forms
- Troubleshooting Exchange Server

Exchange Server 5.0 Series (Exam 70-076)

Total Time: 44 hours

Recommended Prerequisite

Exchange 5.0: Using Microsoft Exchange 5.0

2 hours

EX5C01

Exchange 5.0: Using Microsoft Exchange 5.0 shows users how to use Microsoft (r) Exchange 5.0 to get and send mail, share files, and manage their time with a scheduling program.

- Viewing Mail and Folders
- Sending and Receiving Messages
- Creating and Managing Folders
- Customizing Exchange
- Working Offsite
- Using Schedule+

Exchange Server 5.0: Planning

6 hours

ES5C01

MS Exchange Server 5.0: Planning provides an overview of preparation and planning for the installation and management of Microsoft Exchange Servers.

- Planning Server Organization
- Planning Sites
- Planning Server Computers
- Planning Migration and Coexistence
- Planning Public Folders
- Configuring Public Folders

Exchange Server 5.0: Configuration

6 hours

ES5C02

MS Exchange Server 5.0: Configuration discusses how to install Exchange Server and how to configure the server, including configuring electronic mail recipients and the Exchange Server site.

- Preparing for Client Installation
- Long-Term Administration
- Preparing for Installation
- Installing the Server
- Configuring for Recipients
- Configuring Other Recipient Types
- Configuring Site Properties

Exchange Server 5.0: Installation

6 hours

ES5C03

MS Exchange Server 5.0: Installation provides an overview of the installation and configuration of connections between Microsoft Exchange Servers and other electronic mail systems. It also describes the installation and configuration of client software for local and remote connections.

- Connecting to Foreign Mail
- Directory Synchronization
- Client Install and Configuration
- Remote User Support

Exchange Server 5.0: Managing**6 hours****ES5C04**

MS Exchange Server 5.0: Managing provides an overview of various management tasks and issues for Microsoft Exchange Servers. This includes management of public and private objects that can receive electronic mail and the information stores for those objects. It also describes the management of back-up and restore tasks on the Exchange Servers.

- Managing the Directory
- Managing Recipients
- Mailbox Management Issues
- Distribution Lists
- Private Information Stores
- Public Folder Creation and Permissions
- Managing Public Folders
- Backup and Restoration

Exchange Server 5.0: Monitoring**6 hours****ES5C05**

MS Exchange Server 5.0: Monitoring provides an overview of monitoring Microsoft Exchange Servers for performance and potential troubleshooting. It describes the use of the Key Management Server, Performance Monitor, Link Monitor, and Server Monitor.

- Working with Performance Monitor
- Establishing Site Security
- Using Advanced Security
- Working with Advanced Security
- Monitoring Connectivity Using the Link Monitor
- Using the Server Monitor
- Working with Message Queues

Exchange Server 5.0: Troubleshooting**6 hours****ES5C06**

MS Exchange Server 5.0: Troubleshooting provides an overview of optimising performance and troubleshooting problems.

- Performance Considerations
- Performance Optimiser
- General Troubleshooting Theory
- Windows NT Tools
- Diagnosing and Resolving Installation Problems
- Foreign Connectivity

Exchange Server 5.0: Site Solutions**6 hours****ES5C07**

MS Exchange Server 5.0: Site Solutions provides an overview of connecting Microsoft Exchange Servers with other mail servers and resolving problems with the networking between them.

- Troubleshooting the Site Connectors
- X.400 Connectivity
- Internet Connectivity
- Resolving Client Connectivity Problems
- Information Store Troubleshooting
- Resolving Directory and Resource Problems
- Resolving Directory and Resource Problems
- Resolving Backup and Restoration Problems

Exchange Server 5.5 Series

Total Time: 56 hours

Exchange Server 5.5: Planning

6 hours

X55C01

Exchange Server 5.5: Planning shows users how to plan an Exchange Server organization and installation process.

- Planning Server Organization
- Planning Boundaries and Names
- Planning Sites
- Planning Server Computers
- Upgrading from Earlier Exchange Servers
- Developing Coexistence Strategies

Exchange Server 5.5: Strategies

6 hours

X55C02

Exchange Server 5.5: Strategies shows users how to plan strategies for managing the Exchange Server infrastructure.

- Planning the Server Connectors
- Configuring Public Folders
- Planning Public Folders
- Installing Exchange Clients
- Client Interoperability
- Planning Backup Strategies
- Developing Long-Term Administration
- Security and Scripting Issues

Exchange Server 5.5: Installing

6 hours

X55C03

Exchange Server 5.5: Installing shows users how to install Exchange Server and configure it for use.

- Preparing for Installation
- Installing the Server
- Configuring the Server
- Configuring Mailboxes
- Configuring Folders and Address Books
- Site Addressing and Mail Storage
- Configuring Site Properties
- Configuring Internet and X.400 Mail
- Configuring Other Mail Connections

Exchange Server 5.5: Configuring

6 hours

X55C04

Exchange Server 5.5: Configuring shows users how to establish settings on Exchange Server for site management and connections.

- Directory Synchronization
- Client Install and Configuration
- Remote User Support
- Support for Roving Users
- NT Server Security
- Permissions and Encryption
- Key Management Server
- Managing the Directory
- Managing Mailbox Properties
- Mailbox Management Issues

Exchange Server 5.5: Managing**6 hours****X55C05**

Exchange Server 5.5: Managing shows users how to manage the operations of Exchange Server.

- Distribution Lists
- Public Folder Creation and Permissions
- Managing Public Folders
- Replicating Public Folders
- Private Folder Recovery and Storage
- Managing Private Information Stores
- Backup Strategies
- Running Backups and Utilities

Exchange Server 5.5: Monitoring**8 hours****X55C06**

Exchange Server 5.5: Monitoring shows users how to use numerous tools to monitor Exchange Server and configure it for optimum performance.

- Monitoring with Performance Monitor
- Performance Monitor Counters and Alerts
- Creating a Link Monitor
- Using the Link Monitor
- Using the Server Monitor
- Monitoring Performance with SNMP
- Installing SNMP for Exchange
- Optimising Exchange Design
- Optimising Individual Exchange Servers
- Using Performance Optimiser

Exchange Server 5.5: Troubleshooting**6 hours****X55C07**

Exchange Server 5.5: Troubleshooting shows users how to resolve common connection and installation problems.

- Basic Troubleshooting
- Windows NT Troubleshooting Tools
- Resolving Upgrade Problems
- Solving Installation Problems
- Solving Migration and Connectivity Problems

Exchange Server 5.5: Connectivity**6 hours****X55C08**

Exchange Server 5.5: Connectivity shows users how to resolve connection problems with other sites and other mail systems.

- Solving Lotus cc:Mail Problems
- Solving Microsoft Mail Problems
- Site Connectivity and Dynamic RAS
- Troubleshooting the Site Connector
- Troubleshooting X.400 Connector
- Troubleshooting Internet Connectivity
- Troubleshooting Internet Outgoing Mail

Exchange Server 5.5: Site Solutions**6 hours****X55C09**

Exchange Server 5.5: Site Solutions shows users how to resolve common site messaging and security problems.

- Resolving Client Connectivity Problems
- Troubleshooting the Information Store
- Resolving Directory Problems
- Resolving Resource Problems
- Resolving Message Delivery Problems
- Resolving Backup and Restoration Problems
- Diagnosing Security Problems

IIS 4 Series

Total Time: 42 hours

IIS 4: Internet Information Server Basics

3 hours

IISC01

IIS 4: Internet Information Server Basics provides an introduction to the Internet Information Server and its installation and configuration.

- IIS System Requirements
- Preparing for Installation
- Installing IIS
- Using the Microsoft Management Console
- Basic Configuration and Testing
- Changes to Windows NT by IIS

IIS 4: Architecture and Components

3 hours

IISC02

IIS 4: Architecture and Components explains the features and delivery systems available in the Internet Information Server.

- Static Content Delivery Architecture
- Dynamic Content Delivery Architecture
- FTP and HTTP Features
- Application Delivery and Database Access
- IIS System Administration
- Components and Implementation Strategies

IIS 4: Configuration

3 hours

IISC03

IIS 4: Configuration shows how to use the Microsoft Management Console and the Metabase, and how to configure the major system settings of the Internet Information Server.

- Managing Snap-Ins and Custom Consoles
- Using the Metabase
- Administration Tools
- Configuring Server and MIME Mapping

IIS 4: The WWW Server

3 hours

IISC04

IIS 4: The WWW Server shows how to use the Internet Information Server to manage a Web site.

- Configuring for Web Use
- Creating Web Sites
- Home and Virtual Directories
- Directory Properties and Redirections
- Configuring Site Defaults
- Setting Security and Site Information
- Modifying Performance Parameters

IIS 4: The FTP Service**3 hours****IISC05**

IIS 4: The FTP Service shows how to use the Internet Information Server to manage an FTP site.

- Creating an FTP Site
- Managing an FTP Site
- Managing Virtual Directories
- Annotations and Restricting TCP/IP

IIS 4: Security**3 hours****IISC06**

IIS 4: Security explains how to protect information and user access with the Internet Information Server.

- Controlling Access
- Securing Access by Client or Address
- Configuring the Home Directory
- Setting Up SSL Encryption
- Using SSL Certificates and Other Protocols
- Controlling Service, Directory, and File Access
- Managing TCP/IP and Users

IIS 4: Microsoft Certificate Server**3 hours****IISC07**

IIS 4: Microsoft Certificate Server explains how to manage certificates with the Internet Information Server.

- Using Certificates
- Installing a Root Certificate Authority
- Installing Certificate Authority Certificates
- Web Server Certificate Enrolment
- Other Enrolment Options
- Administering Certificate Server

IIS 4: The SMTP Server**3 hours****IISC08**

IIS 4: The SMTP Server shows how to use the Internet Information Server to manage SMTP service.

- Installing SMTP Service
- SMTP Components
- Configuring SMTP
- Monitoring and Performance Tuning
- Troubleshooting SMTP

IIS 4: The NNTP Server**3 hours****IISC09**

IIS 4: The NNTP Server shows how to use the Internet Information Server to manage NNTP service.

- Introduction to NNTP
- Configuring NNTP Service
- Managing NNTP Service
- Optimising Performance

IIS 4: Microsoft Index Server**3 hours****IISC10**

IIS 4: Microsoft Index Server shows how to manage the indexing process in the Internet Information Server.

- The Indexing Process
- Configuring the HTML Administration Tool
- Configuring from the MMC
- Server and Catalogue Properties
- Querying and Tuning

IIS 4: Programmability**3 hours****IISC11**

IIS 4: Programmability explains how to create dynamic content in the Internet Information Server.

- Server-Side Programming
- Active Server Scripting and Objects
- Connecting to a Database
- Scripting Host and ADSI

IIS 4: Performance Tuning**3 hours****IISC12**

IIS 4: Performance Tuning shows how to get maximum performance out of the Internet Information Server and how to watch for trouble signs.

- Analysing Performance Issues
- Using Network Monitor
- Using Performance Monitor
- Checking Key Performance Monitor Areas
- Viewing Index and Services Counters

IIS 4: Site Analysis**3 hours****IISC13**

IIS 4: Site Analysis shows how to create log files and analyse activity reports in the Internet Information Server.

- Logging and Analysing Activity
- Reading Log Formats
- Importing & Analysing Logs
- Automating Usage Import & Report Writer
- Content Analyser

IIS 4: Troubleshooting**3 hours****IISC14**

IIS 4: Troubleshooting explains how to isolate and solve problems in the Internet Information Server.

- Troubleshooting TCP/IP
- IIS Installation and Security
- Database Access and Headers

Networking Essentials Series (Exam 70-058)

Total Time: 24 hours

Networking Essentials: Terminology

4 hours

NESC01

Networking Essentials: Terminology covers networking theory and some of the basic terms and concepts used in networking. While the course targets objectives from the Standards and Terminology section of the MCSE Networking Essentials exam 70-58, and examples are given in terms of Microsoft solutions, the topics covered are generally applicable to all networking models.

- Network Concepts and Components
- Network Models
- Network Security and Classifications
- Network File Services
- Network Applications

Networking Essentials: Standards

4 hours

NESC02

Networking Essentials: Standards explores some networking standards, including the Open Systems Interconnection (OSI) reference model, Serial Line Internet Protocol (SLIP), Point-to-Point Protocol (PPP), the IEEE 802 standards, Network Driver Interface Specification (NDIS), and Open Data-Link Interface (ODI).

- Introducing Networking Standards
- Introducing the OSI Reference Model
- The OSI Network Layer
- Completing the OSI Reference Model
- Network Devices and the OSI Model
- Using SLIP and IPP
- The IEEE 802 Family of Standards
- NDIS and ODI Network Standards

Networking Essentials: Planning a Topology

4 hours

NESC03

Networking Essentials: Planning a Topology discusses some of the more common network transmission media, access methods, and topologies. Then it describes how these apply to Ethernet and Token Ring networks.

- Signal Transmission Basics
- Coaxial Cable
- Twisted-Pair Cable
- Fibre-Optic Cable
- Wireless Media
- Mobile Computing
- Access Methods
- Physical and Logical Topologies
- Ethernet
- Token Ring

Networking Essentials: Planning Connections**4 hours****NESC04**

Networking Essentials: Planning Connections examines a variety of protocols, connectivity devices, and some standards for WAN connection services.

- Transport Protocols
- Transport Protocols II
- Transport Protocols III
- Modem Connectivity
- Hubs, Repeaters and Bridges
- Routers and Gateways
- Connection Services
- Packet Routing and Switching

Networking Essentials: Implementation**4 hours****NESC05**

Networking Essentials: Implementation deals with the process of implementing resource sharing on a Microsoft network, examines how the use of fault-tolerant disk configurations and a backup strategy can help reduce the danger of lost time and data, and describes the processes of installing and configuring network adapter cards.

- Resource Sharing Basics
- User Accounts and Groups in Windows NT
- Implementing Security on Windows NT
- Implementing Security on Windows 95
- Printers and Administrative Tasks
- Disaster Recovery
- Using RAID
- Network Adapter Cards
- Installing Network Adapter Cards
- Configuring Network Adapter Cards

Networking Essentials: Troubleshooting**4 hours****NESC06**

Networking Essentials: Troubleshooting describes some of the strategies and tools you can use to find resources, monitor trends, and troubleshoot network problems.

- Accessing Resources with NetBIOS
- Monitoring Trends and Performance
- Monitoring Traffic and Logging Events
- Troubleshooting Network Connectivity
- Other Troubleshooting Issues

SQL Server 2000 Database Design MCSE 70-229:

Total Time: 22 hours

SQL Server 2000 Database Design MCSE 70-229: Data Modeling and Database Creation

4 hours

SQL201

SQL Server 2000 Database Design MCSE 70-229: Data Modeling and Database Creation provides an overview of data modeling with an emphasis on relational database systems, and shows users how to implement a logical design by creating a database in SQL Server 2000.

SQL Server 2000 Database Design MCSE 70-229: Database Objects

3 hours

SQL202

SQL Server 2000 Database Design MCSE 70-229: Database Objects shows users how to create and alter tables, define data types, and ensure integrity by implementing constraints.

SQL Server 2000 Database Design MCSE 70-229: Retrieving and Modifying Data

2 hours

SQL203

SQL Server 2000 Database Design MCSE 70-229: Retrieving and Modifying Data shows users how to retrieve, filter, and modify data using Transact-SQL, and explains techniques for importing and exporting data in SQL Server 2000.

SQL Server 2000 Database Design MCSE 70-229: Indexes and Views

3 hours

SQL204

SQL Server 2000 Database Design MCSE 70-229: Indexes and Views explains the types of indexes and views available in SQL Server 2000, and shows how they can be used to enhance and control access to data.

SQL Server 2000 Database Design MCSE 70-229: Database Programming

4 hours

SQL205

SQL Server 2000 Database Design MCSE 70-229: Database Programming shows users how to create and use stored procedures, triggers, functions, user-defined functions (UDFs), transactions, cursors, and locks in database application programming.

SQL Server 2000 Database Design MCSE 70-229: Remote Data Access and XML **2 hours** **SQL206**

SQL Server 2000 Database Design MCSE 70-229: Remote Data Access and XML explains techniques for accessing heterogeneous data using linked servers, ad hoc queries, and pass-through queries, and shows users how to retrieve and write data using XML.

SQL Server 2000 Database Design MCSE 70-229: Optimization and Security **2 hours** **SQL207**

SQL Server 2000 Database Design MCSE 70-229: Optimization and Security shows users the tools and techniques that can be used to monitor and optimize the performance of a SQL Server 2000 database, and how to design and implement a database security plan.

SQL Server 2000 Database Design MCSE 70-229: Exam Preparation 1 **1 hours** **SQL208**

SQL Server 2000 Database Design MCSE 70-229: Exam Preparation 1 provides practice questions with explanatory feedback for Microsoft Exam 70-229: "Designing and Implementing Databases with Microsoft SQL Server 2000 Enterprise Edition."

SQL Server 2000 Database Design MCSE 70-229: Exam Preparation 2 **1 hours** **SQL209**

SQL Server 2000 Database Design MCSE 70-229: Exam Preparation 2 provides practice questions with explanatory feedback for Microsoft Exam 70-229: "Designing and Implementing Databases with Microsoft SQL Server 2000 Enterprise Edition."

SQL Server 6.5 Series (Exam 70-026)

Total Time: 24 hours

SQL Server 6.5: Introduction	4 hours	SQSC01
<i>SQL Server 6.5: Introduction provides an overview of the use of SQL Enterprise Manager and how to use it to create and manage database objects in Microsoft (r) SQL Server (tm) 6.5.</i>		
<ul style="list-style-type: none">• Introduction to SQL Enterprise Manager• Creating and Altering Database Objects		
SQL Server 6.5: Installation and Setup	4 hours	SQSC02
<i>SQL Server 6.5: Installation and Setup provides instructions for installing Microsoft (r) SQL Server (tm) 6.5 and setting up physical and mirror devices.</i>		
<ul style="list-style-type: none">• Responsibilities of the System Administrator• Defining Physical and Mirror Devices• SQL Server installation and Connectivity		
SQL Server 6.5: Users and Replication	4 hours	SQSC03
<i>SQL Server 6.5: Users and Replication provides instruction on implementing security and user administration and on configuring replication in Microsoft (r) SQL Server (tm) 6.5.</i>		
<ul style="list-style-type: none">• Security and User Administration• Introduction to SQL Server 6.5 Replication		
SQL Server 6.5: Database Administration	4 hours	SQSC04
<i>SQL Server 6.5: Database Administration provides instruction on creating and maintaining databases and database logs. It also explains how to use DBCC to maintain the efficiency and reliability of Microsoft (r) SQL Server (tm) 6.5 databases.</i>		
<ul style="list-style-type: none">• Defining, Altering, and Maintaining Databases and Logs• DBCC		
SQL Server 6.5: System Management	4 hours	SQSC05
<i>SQL Server 6.5: System Management provides instruction on database maintenance through transaction logs and recovery as well as backup and restore. It also covers remote and distributed management options of Microsoft (r) SQL Server (tm) 6.5.</i>		
<ul style="list-style-type: none">• Database Logging and Recovery• Remote Server Management• SQL Server Database Backup and Restoration• The MS SQL Server Distributed Management Framework		
SQL Server 6.5: Tuning for Performance	4 hours	SQSC06
<i>SQL Server 6.5: Tuning for Performance provides instruction on tuning Microsoft (r) SQL Server (tm) 6.5 to optimise performance</i>		
<ul style="list-style-type: none">• Configuring and Tuning SQL Server• Measuring SQL Server System Performance• Optimising SQL Server Configuration Options• Miscellaneous Performance Topics		

SQL Server 7 Admin Series

Total Time: 72 hours

SQL Server 7 Admin: Security Strategy

4 hours

LA7C01

SQL Server 7 Admin: Security Strategy shows users how to plan the security policies for a SQL Server 7 installation.

- SQL Server Authentication Methods
- Using Windows NT Groups
- Planning the Use of SQL Server Roles
- Developing a Security Strategy
- Other Security Issues

SQL Server 7 Admin: System Requirements

4 hours

LA7C02

SQL Server 7 Admin: System Requirements shows users how to prepare for the hardware needs of a SQL Server 7.0 installation.

- Data File Placement and Space
- Capacity Planning
- Communication and Backup Strategies
- Data Availability

SQL Server 7 Admin: Migration Planning

4 hours

LA7C03

SQL Server 7 Admin: Migration Planning shows users how to migrate data from other sources into a SQL Server 7.0 installation.

- Planning an Upgrade
- Upgrade Method and Upgrade Wizard
- Migration Issues
- Migrating Data from Other Sources
- Using the Import Wizard

SQL Server 7 Admin: Replication Plans

4 hours

LA7C04

SQL Server 7 Admin: Replication Plans shows users how to develop a strategy for system replication.

- Choosing a Replication Model
- Additional Options
- Choosing a Replication Type
- Designing and Planning Replication
- Data Definition Considerations

SQL Server 7 Admin: Installing the Server**4 hours****LA7C05**

SQL Server 7 Admin: Installing the Server shows users how to go through the installation process for servers and clients.

- Installation Prerequisites
- Installing Components
- Choosing Database Options
- Installing Network Libraries & Protocols
- Installing Services and Clients

SQL Server 7 Admin: Other Installations**4 hours****LA7C06**

SQL Server 7 Admin: Other Installations shows users how to perform unattended set-ups or upgrade from a previous version of SQL Server.

- Performing an Unattended Setup
- Preparing for a Version 6.x Upgrade
- Running the SQL Server Upgrade Wizard
- Completing the Upgrade

SQL Server 7 Admin: Configuring**4 hours****LA7C07**

SQL Server 7 Admin: Configuring shows users how to configure SQL server and its services.

- Using the Register Server Wizard
- Configuring the Server
- Configuring SQL Mail and ANSI Settings
- Installing the Full-Text Search Service
- Configuring the Full-Text Search Service

SQL Server 7 Admin: Security Management**4 hours****LA7C08**

SQL Server 7 Admin: Security Management shows users how to assign access and roles to server users and databases.

- Overview of SQL Server Security
- Security Modes
- Creating and Managing Logins
- Database User IDs and Roles
- Using the Create Login Wizard

SQL Server 7 Admin: Managing Accounts**4 hours****LA7C09**

SQL Server 7 Admin: Managing Accounts shows users how to administer login IDs, Database IDs, and roles.

- Viewing ID Information
- Viewing Roles
- Managing Login IDs
- Managing Database IDs and Roles
- Server Roles and Management Procedures

SQL Server 7 Admin: Managing Permissions**4 hours****LA7C10**

SQL Server 7 Admin: Managing Permissions shows users how to administer permissions and monitor server and database activity.

- Permissions
- Permission Management Tools
- Displaying Permissions Information
- Granting and Revoking Permissions
- Auditing Server and Database Activity

SQL Server 7 Admin: Database Management**4 hours****LA7C11**

SQL Server 7 Admin: Database Management shows users how to create and maintain SQL server databases.

- Creating a Database
- Managing Database Size
- Database Options and Scripts
- Managing and Deleting Databases

SQL Server 7 Admin: Loading Databases**4 hours****LA7C12**

SQL Server 7 Admin: Loading Databases shows users how to load data from other sources into SQL Server databases.

- The INSERT and SELECT INTO Statements
- Bulk Copying Data
- Importing and Exporting Data with DTS
- Managing DTS Packages

SQL Server 7 Admin: Backups and Restores**4 hours****LA7C13**

SQL Server 7 Admin: Backups and Restores shows users how to back up and restore data on SQL Servers.

- Introduction to Backups
- Database Backups
- Differential Backups
- Transaction Log Backups
- File group Backups
- Backing Up System Databases

SQL Server 7 Admin: Managing Replication**3 hours****LA7C14**

SQL Server 7 Admin: Managing Replication shows users how to create and administer database replication.

- Using Replication
- Configuring Servers
- Creating Publications
- Subscribing to Publications

SQL Server 7 Admin: Management Tasks**3 hours****LA7C15**

SQL Server 7 Admin: Management Tasks shows users how to manage a variety of administrative tasks, including server jobs, events, alerts, linked servers, and remote servers.

- Configuring the SQL Server Agent
- Implementing Jobs
- Multiserver Jobs
- Managing Server Events
- Linked Servers

SQL Server 7 Admin: Monitoring Events**3 hours****LA7C16**

SQL Server 7 Admin: Monitoring Events shows users how to monitor and trace engine events.

- Introduction to Monitoring
- Understanding Trace Architecture
- Creating Traces with the Trace Wizard
- Creating Traces with Other Tools
- Managing Traces
- Analysing Traces

SQL Server 7 Admin: Watching & Optimising**3 hours****LA7C17**

SQL Server 7 Admin: Watching & Optimising shows users how to monitor and tune resource usage by SQL Server.

- Monitoring Disk I/O Performance
- Monitoring CPU and Memory Usage
- Other Monitoring Processes
- Optimising Server Performance

SQL Server 7 Admin: Server Repair**4 hours****LA7C18**

SQL Server 7 Admin: Server Repair shows users how to troubleshoot problems with installation, upgrading, and access to servers.

- Overview of Troubleshooting
- Solving Installation Problems
- Solving Upgrading Problems
- More About Upgrading Problems
- Troubleshooting Server Access Problems
- Troubleshooting SQL Server Permissions

SQL Server 7 Admin: More Troubleshooting**4 hours****LA7C19**

SQL Server 7 Admin: More Troubleshooting shows users how to resolve problems with database management and linked server issues.

- Troubleshooting Backups and Restores
- Troubleshooting the SQL Server Agent
- Troubleshooting Jobs and Alerts
- Troubleshooting Replication
- Linked Server Issues and Recovery Planning

TCP/IP Series (Exam 70-059)

Total Time: 40 hours

TCP/IP: Introduction to TCP/IP Concepts

4 hours

TCPC01

TCP/IP: Introduction to TCP/IP Concepts provides an overview of the use of TCP/IP with several different operating systems. The relationships between the OSI reference, Microsoft networking, and TCP/IP models are discussed. This leads into a detailed explanation of the TCP/IP Application layer and how data is processed.

- TCP/IP Overview
- Using TCP/IP and IP Addresses
- Introduction to Microsoft Networking
- The TCP/IP Model
- The TCP/IP Application Layer

TCP/IP: Data Delivery and Routing

4 hours

TCPC02

TCP/IP: Data Delivery and Routing provides an overview of the processes involved in routing and delivering data through the TCP/IP Transport and Internet layers.

- The TCP/IP Transport Layer
- Introducing the TCP/IP Internet Layer
- IP Data grams
- Subnetting
- Routing

TCP/IP: Microsoft TCP/IP and IIS

4 hours

TCPC03

TCP/IP: Microsoft TCP/IP and IIS provides instruction on the installation, configuration, and management of Microsoft TCP/IP, the Internet Information Server (IIS), and other network services

- Microsoft TCP/IP Services
- Testing the TCP/IP Configuration
- Internet Information Server
- Configuring the HTTP Server
- Advanced WWW, FTP and Gopher

TCP/IP: Printing Services and DHCP

4 hours

TCPC04

TCP/IP: Printing Services and DHCP provides instruction on the installation, configuration, and management of printing services and the Dynamic Host Configuration Protocol (DHCP).

- Printing with Windows NT
- TCP/IP Printing Services
- Dynamic Host Configuration Protocol (DHCP)
- Leases
- Managing Leases and DHCP Servers
- Configuring DHCP in the Registry

TCP/IP: Name Resolution and WINS

4 hours

TCPC05

TCP/IP: Name Resolution and WINS provides a detailed description of the NetBIOS Name Resolution methods. Additionally, it provides instruction on the installation, configuration, and management of Windows Internet Name Services (WINS) Servers, Clients, and Server Manager.

- NetBIOS Name Cache, LMHOSTS, and Broadcast
- NetBIOS Name Server, HOSTS, and DNS Server
- Order of NetBIOS Name Resolution
- Introduction to WINS
- Installing WINS Server and Clients
- Configuring WINS Servers
- Managing WINS Servers
- WINS Database Scavenging and Replicating

TCP/IP: Introduction to DNS Server**4 hours****TCPC06**

TCP/IP: Introduction to DNS Server provides an overview of the Microsoft Browser Services and the Domain Name System (DNS). It shows users how to configure the Microsoft DNS Server and use database files.

- The Browsing Process
- Browsing Multiple Subnets
- Domain Name System
- Internet Domain Space
- DNS Name Resolution
- Configuring Microsoft DNS Server
- Database Files

TCP/IP: Managing DNS and TCP/IP**4 hours****TCPC07**

TCP/IP: Managing DNS and TCP/IP shows a user how to manage and operate the Microsoft Domain Name System (DNS) Server and multiple resources. It provides instruction on which utility to use to connect to TCP/IP-based UNIX host for file transfer, interactive, and printing utilities

- Initiating the DNS Server
- Configuring DNS Server
- Managing Multiple DNS Servers
- Operating DNS Server
- File Transfer Utilities
- Interactive and Printing Utilities

TCP/IP: Utilities for Monitoring TCP/IP**4 hours****TCPC08**

TCP/IP: Utilities for Monitoring TCP/IP shows an administrator how and when to use the various troubleshooting utilities, Network Monitor, and the Simple Network Management Protocol (SNMP).

- Troubleshooting Utilities
- More Troubleshooting Utilities
- Network Monitor: Installing
- Network Monitor: Capturing Frames
- Network Monitor: Capture Filters
- Network Monitor: Examining Data
- SNMP

TCP/IP: Performance Monitor and RAS**4 hours****TCPC09**

TCP/IP: Performance Monitor and RAS shows an administrator how to use Performance Monitor and how to configure the Remote Access Service (RAS).

- Performance Monitor
- Using RAS
- Dial-up Networking
- Using Dial-up Networking
- RAS as a Router and Server

TCP/IP: PPTP and Troubleshooting**4 hours****TCPC10**

TCP/IP: PPTP and Troubleshooting shows an administrator how to configure Point-to-Point Tunnelling Protocol (PPTP), identify and troubleshoot TCP/IP connectivity and service problems, as well as designing a TCP/IP intranet work.

- Point-to-Point Tunnelling Protocol (PPTP)
- Identifying a TCP/IP Problem
- Troubleshooting Tools and Utilities
- TCP/IP Connectivity and Service Problems
- TCP/IP Troubleshooting Scenarios
- Planning a TCP/IP Intranet work
- Selecting Services for a TCP/IP Intranet work

Visual Studio .NET Overview Series

Total Time: 6 hours

Visual Studio .NET Overview: Exploring the .NET Initiative

2 hours

VSTI01

Visual Studio .NET Overview: Exploring the .NET Initiative introduces the .NET initiative and explains how it offers interoperability among applications using different platforms and languages. This course describes the products and components in the .NET suite and explains how applications are executed in the .NET framework.

Visual Studio .NET Overview: Languages and Application Development

2 hours

VSTI02

Visual Studio .NET Overview: Languages and Application Development presents an overview of three programming languages used to develop .NET applications: Visual C# .NET, Visual Basic .NET and Visual C++ .NET. It discusses the types of applications commonly developed in Visual Studio .NET and explains the application development cycle.

Visual Studio .NET Overview: Getting Started with .NET

2 hours

VSTI03

Visual Studio .NET Overview: Getting Started with .NET explains the system requirements necessary to install Visual Studio .NET, then presents installation instructions. This course also describes in detail the tools and features available in the Visual Studio integrated development environment (IDE).

Windows 2000 Active Directory MCSE 70-217 Series

Total Time: 31 hours

Windows 2000 Active Directory MCSE 70-217: Preparing for Active Directory **4 hours** **W21701**

Windows 2000 Active Directory MCSE 70-217: Preparing for Active Directory provides users with an overview of the Active Directory and its integration with DNS.

- Understanding Active Directory
- Installing DNS
- Roles for DNS Servers
- Integrating DNS and Active Directory
- Troubleshooting DNS

Windows 2000 Active Directory MCSE 70-217: Building an Active Directory Structure **4 hours** **W21702**

Windows 2000 Active Directory MCSE 70-217: Building an Active Directory Structure describes how to install domains, work with networks, and replicate Active Directory information.

- Understanding Active Directory Structure
- Installing Domains
- Working with Networks
- Managing Replication

Windows 2000 Active Directory MCSE 70-217: Administering Active Directory Services **4 hours** **W21703**

Windows 2000 Active Directory MCSE 70-217: Administering Active Directory Services shows how to administer a network by manipulating Active Directory objects.

- Managing Computers
- Managing Users
- Using Groups
- Objects and Permissions
- Managing Shared Resources

Windows 2000 Active Directory MCSE 70-217: Managing Servers **3 hours** **W21704**

Windows 2000 Active Directory MCSE 70-217: Managing Servers describes the roles of servers, how to back up and recover data, and how to troubleshoot problems with servers.

- Understanding Server Roles
- Backup and Recovery
- Monitoring Domain Controllers
- Troubleshooting Server Problems

Windows 2000 Active Directory MCSE 70-217: Understanding Group Policy **4 hours** **W21705**

Windows 2000 Active Directory MCSE 70-217: Understanding Group Policy describes how to provide centralized control of users, groups, and computers within a large enterprise.

- Group Policy Basics
- Managing Group Policy
- Configuring Group Policy Security
- Troubleshooting Group Policy

Windows 2000 Active Directory MCSE 70-217: Managing User Environments with Group Policy **3 hours** **W21706**

Windows 2000 Active Directory MCSE 70-217: Managing User Environments with Group Policy describes how to use administrative templates, scripts, and other settings to manage user environments.

- Administrative Templates for Users
- Administrative Templates for Computers
- Using Scripts in Group Policy
- Configuring Additional Settings

Windows 2000 Active Directory MCSE 70-217: Distributing Software with Group Policy **3 hours** **W21707**

Windows 2000 Active Directory MCSE 70-217: Distributing Software with Group Policy describes how to use Group Policy to distribute software applications.

- Preparing Software for Deployment
- Deploying Software
- Maintaining Software
- Managing Software Deployment

Windows 2000 Active Directory MCSE 70-217: Managing Security with Group Policy **3 hours** **W21708**

Windows 2000 Active Directory MCSE 70-217: Managing Security with Group Policy describes how to use Group Policy to configure elements of security for different parts of an organization.

- Security Settings and Templates
- Configuring Security Settings
- Planning an Audit Policy
- Using an Audit Policy

Windows 2000 Active Directory MCSE 70-217: Using Remote Installation Services **3 hours** **W21709**

Windows 2000 Active Directory MCSE 70-217: Using Remote Installation Services shows users how to configure and use Remote Installation Services to perform a remote installation of Windows 2000 Professional on client machines.

- Remote Installation Basics
- Configuring a RIS Server
- Creating Images
- Performing a Remote Installation

Windows 2000 Directory Design MCSE 70-219 Series

Total Time: 24 hours

Windows 2000 Directory Design MCSE 70-219: Analysing Business Requirements

4 hours

W21901

Windows 2000 Directory Design MCSE 70-219: Analysing Business Requirements explains how to conduct a business assessment by identifying key company processes and strategy influences and by defining problems and objectives.

- Conducting a Business Assessment
- Problems and Objectives
- Company Organization
- Geographical Scope
- Key Processes
- Strategy Influences

Windows 2000 Directory Design MCSE 70-219: Analysing the Technical Environment

3 hours

W21902

Windows 2000 Directory Design MCSE 70-219: Analysing the Technical Environment explains how to determine how a company's IT management structure will affect the Active Directory design project. The course also reviews how to examine the company's technical environment.

- Analysing the IT Management Structure
- Funding and Outsourcing
- Examining Users and Connections
- Inventorying Equipment
- Name Resolution Services

Windows 2000 Directory Design MCSE 70-219: Analysing Performance and Access

3 hours

W21903

Windows 2000 Directory Design MCSE 70-219: Analysing Performance and Access explains how to examine the network's current performance and the procedures to access the network.

- Planning for Data Collection
- Logging System Monitor Data
- Common Bottlenecks
- Network Bottlenecks
- Completing the Performance Analysis
- Performance Roles and Enhancements

Windows 2000 Directory Design MCSE 70-219: Analysing Security Considerations

3 hours

W21904

Windows 2000 Directory Design MCSE 70-219: Analysing Security Considerations explains how to use the features of Windows 2000 and Active Directory to fulfil a company's network security requirements.

- Windows 2000 Authentication
- Public Key Infrastructure (PKI)
- Active Directory and Security
- Securing Data Transmissions
- Security in the Enterprise

Windows 2000 Directory Design MCSE 70-219: Analysing the Impact of Active Directory **3 hours** **W21905**

Windows 2000 Directory Design MCSE 70-219: Analysing the Impact of Active Directory shows the user how to assess how an Active Directory design will change the performance and design of a network.

- Performing an Application Inventory
- Problem Applications and Solutions
- Removing NetBIOS
- Technical Support Structure
- Network and Systems Management

Windows 2000 Directory Design MCSE 70-219: Analysing Client Management Requirements **2 hours** **W21906**

Windows 2000 Directory Design MCSE 70-219: Analysing Client Management Requirements explains how to identify end-user needs, install and manage software remotely, and manage desktops.

- End-User Needs and Desktop Management
- Software Installation and Maintenance
- Remote OS Installation
- Remote Desktop Management

Windows 2000 Directory Design MCSE 70-219: Directory Naming and DNS Placement **3 hours** **W21907**

Windows 2000 Directory Design MCSE 70-219: Directory Naming and DNS Placement shows users how to design an Active Directory naming strategy and to place DNS servers in the design.

- DNS Design Concepts
- DNS Components
- DNS and Active Directory
- Namespace Planning
- Complex Namespace Considerations

Windows 2000 Directory Design MCSE 70-219: Designing Directory Service Architecture **3 hours** **W21908**

Windows 2000 Directory Design MCSE 70-219: Designing Directory Service Architecture examines how to plan and implement domain architecture.

- Domain Design Concepts
- Beginning the Design Process
- Rules of Domain Creation
- Planning the Active Directory Root
- Parent/Child and Trust Relationships

Windows 2000 Network Administration MCSE 70-216 Series

Total Time: 22 hours

Windows 2000 Network Administration MCSE 70-216: Working with DNS and DHCP **5 hours** **W21601**

Windows 2000 Network Administration MCSE 70-216: Working with DNS and DHCP explains how to install, configure, monitor, and manage DNS and DHCP.

- Installing DNS and Creating Zones
- Configuring DNS
- Managing and Monitoring DNS
- Installing DHCP and Creating Scopes
- Configuring and Managing DHCP

Windows 2000 Network Administration MCSE 70-216: Working with Remote Access **2 hours** **W21602**

Windows 2000 Network Administration MCSE 70-216: Working with Remote Access provides an overview of remote access and explains how to configure and manage remote access.

- Understanding Remote Access
- Using Remote Access Policies and Profiles
- Configuring Remote Access
- Managing Remote Access

Windows 2000 Network Administration MCSE 70-216: Working with Network Protocols **4 hours** **W21603**

Windows 2000 Network Administration MCSE 70-216: Working with Network Protocols explains how to install, configure, troubleshoot, and manage network protocols and network protocol security.

- Understanding Network Protocols
- Configuring Network Protocol Security
- Managing and Monitoring Traffic
- Understanding IPSec
- Working with IPSec

Windows 2000 Network Administration MCSE 70-216: Working with WINS and NAT

3 hours

W21604

Windows 2000 Network Administration MCSE 70-216: Working with WINS and NAT provides an overview of WINS and explains how to install, configure, and manage WINS and NAT.

- Understanding WINS
- Working with WINS
- Network Address Translation (NAT)

Windows 2000 Network Administration MCSE 70-216: Working with IP Routing

4 hours

W21605

Windows 2000 Network Administration MCSE 70-216: Working with IP Routing explains how to install, configure, troubleshoot, and manage IP routing.

- Understanding IP routing protocols
- Working with RIP
- Working with OSPF
- Working with Demand-Dial Routing
- Managing and Monitoring IP Routing

Windows 2000 Network Administration MCSE 70-216: Working with Certificate Services

4 hours

W21606

Windows 2000 Network Administration MCSE 70-216: Working with Certificate Services provides an overview of certificate services and explains how to install and configure CAs.

- Understanding Certificate Services
- Installing and Configuring a CA
- Issuing Certificates
- Working with Certificates and EFS

Windows 2000 Network Management MCSA Series 70-218 Series

Total Time: 44 hours

Windows 2000 Network Management MCSA Series 70-218: Installing Devices and Managing Disks 4 hours **W21801**

Windows 2000 Network Management MCSA 70-218: Installing Devices and Managing Disks provides an overview of installing and configuring server and client computer hardware.

Windows 2000 Network Management MCSA 70-218: Configuring Volume Features and Replication 4 hours **W21802**

Windows 2000 Network Management MCSA 70-218: Configuring Volume Features and Replication provides an overview of managing files and diagnosing problems involving replication.

Windows 2000 Network Management MCSA 70-218: Managing Permissions and Resources 4 hours **W21803**

Windows 2000 Network Management MCSA 70-218: Managing Permissions and Resources provides an overview of configuring user accounts and troubleshooting groups.

Windows 2000 Network Management MCSA 70-218: Updating Windows and Software 2 hours **W21804**

Windows 2000 Network Management MCSA 70-218: Updating Windows and Software provides an overview of deploying service packs and software by configuring Group Policy.

Windows 2000 Network Management MCSA 70-218: Managing Group Policy 5 hours **W21805**

Windows 2000 Network Management MCSA 70-218: Managing Group Policy provides an overview of the Windows 2000 Group Policy feature.

Windows 2000 Network Management MCSA 70-218: Implementing Auditing and Account Policies 2 hours **W21806**

Windows 2000 Network Management MCSA 70-218: Implementing Auditing and Account Policies provides an overview of enabling and configuring auditing and using account policies.

Windows 2000 Network Management MCSA 70-218: Controlling File and Web Access **3 hours** **W21807**

Windows 2000 Network Management MCSA 70-218: Controlling File and Web Access provides an overview of controlling file access via Web Services.

Windows 2000 Network Management MCSA 70-218: Monitoring and Backing Up Systems **4 hours** **W21808**

Windows 2000 Network Management MCSA 70-218: Monitoring and Backing Up Systems provides an overview of monitoring domain controllers, making backups, and data recovery.

Windows 2000 Network Management MCSA 70-218: Managing TCP/IP and DHCP **4 hours** **W21809**

Windows 2000 Network Management MCSA 70-218: Managing TCP/IP and DHCP provides an overview of configuring, monitoring, and troubleshooting TCP/IP and DHCP.

Windows 2000 Network Management MCSA 70-218: Administering Name Resolution and DNS **4 hours** **W21810**

Windows 2000 Network Management MCSA 70-218: Administering Name Resolution and DNS provides an overview of installing, configuring, and troubleshooting DNS.

Windows 2000 Network Management MCSA 70-218: Managing Remote Access **4 hours** **W21811**

Windows 2000 Network Management MCSA 70-218: Managing Remote Access provides an overview of configuring and using Remote Access policies and profiles.

Windows 2000 Network Management MCSA 70-218: Configuring VPNs and Terminal Services **3 hours** **W21812**

Windows 2000 Network Management MCSA 70-218: Configuring VPNs and Terminal Services provides an overview of configuring a Virtual Private Network.

Windows 2000 Network Management MCSA 70-218: Practice Test **1 hours** **W21813**

Windows 2000 Network Management MCSA 70-218: Practice Test provides practice questions for the MCSA Exam 70-218: Managing a Microsoft Windows 2000 Network Environment.

Windows 2000 Network Design MCSE 70-221 Series

Total Time: 26 hours

Windows 2000 Network Design MCSE 70-221: Analysing Business Needs 3 hours W22101

Windows 2000 Network Design MCSE 70-221: Analysing Business Needs shows users how to analyse existing and planned business requirements.

- Analysing Business Models
- Analysing Organization Structures
- Analysing Company Strategies
- Analysing IT Management

Windows 2000 Network Design MCSE 70-221: Analysing Technical Needs 4 hours W22102

Windows 2000 Network Design MCSE 70-221: Analysing Technical Needs shows users how to analyse existing and planned technical requirements.

- Evaluating Company-Specific Issues
- Evaluating General Technical Issues
- Evaluating Security
- Analysing the Impact of Design
- Analysing the Impact of Implementation
- Analysing Disaster Recovery Strategies

Windows 2000 Network Design MCSE 70-221: Infrastructure Design 6 hours W22103

Windows 2000 Network Design MCSE 70-221: Infrastructure Design shows users how to modify and design a network with respect to topologies and protocols.

- Network Topologies
- OSI and TCP/IP Models
- IP Addressing and Subnetting
- Planning IP Networks
- Designing Multiprotocol Networks
- Distributed File System

Windows 2000 Network Design MCSE 70-221: DHCP and Name Services 4 hours W22104

Windows 2000 Network Design MCSE 70-221: DHCP and Name Services shows users how to design DHCP service, name resolution services, and multiprotocol networks.

- Understanding DHCP
- Designing DHCP Strategies
- Understanding DNS
- Designing DNS Strategies
- Planning for WINS

Windows 2000 Network Design MCSE 70-221: Designing for the Internet 3 hours W22105

Windows 2000 Network Design MCSE 70-221: Designing for the Internet shows users how to design Internet and extranet access solutions.

- Firewalls
- Microsoft Proxy Server
- Controlling Proxy Server Accessibility
- Routing and Remote Access
- Designing a Load-Balancing Strategy

Windows 2000 Network Design MCSE 70-221: Designing a WAN 3 hours W22106

Windows 2000 Network Design MCSE 70-221: Designing a WAN shows users how to design a wide area network.

- Designing Remote Access
- Designing a VPN
- Designing RRAS
- Demand-Dial Routing
- Designing a Demand-Dial Routing Strategy

Windows 2000 Network Design MCSE 70-221: Management and Services 3 hours W22107

Windows 2000 Network Design MCSE 70-221: Management and Services shows users how to design a strategy for monitoring and managing Windows 2000 network services.

- The Management Process
- Monitoring the Network
- Analysing and Responding
- Designing Network Services

Windows 2000 Professional MCSE 70-210 Series

Total Time: 42 hours

Windows 2000 Professional MCSE 70-210: Installation	3 hours	WINP01
<i>Windows 2000 Professional MCSE 70-210: Installation provides users with an overview of the installation process for Microsoft Windows 2000 Professional and has step-by-step procedures for installation tasks.</i>		
<ul style="list-style-type: none">• Planning the Installation• Examining a New Installation• Performing a New Installation• Troubleshooting an Installation		
Windows 2000 Professional MCSE 70-210: Remote Installations and Upgrades	3 hours	WINP02
<i>Windows 2000 Professional MCSE 70-210: Remote Installations and Upgrades describes network, unattended, and upgrade installations of Windows 2000 Professional.</i>		
<ul style="list-style-type: none">• Installing over a Network• Unattended Installations• Deployment Tools• Upgrading		
Windows 2000 Professional MCSE 70-210: Administering Resources	3 hours	WINP03
<i>Windows 2000 Professional MCSE 70-210: Administering Resources shows how to manage files. In particular, it covers how to choose a file system, how to compress and encrypt files, and how to manage file-level security.</i>		
<ul style="list-style-type: none">• Configuring and Converting File Systems• Compressing Files and Folders• Managing Compression and Encryption• Managing Security for Files and Folders		
Windows 2000 Professional MCSE 70-210: Administering Shared Resources	3 hours	WINP04
<i>Windows 2000 Professional MCSE 70-210: Administering Shared Resources describes the process and capabilities of managing resources shared on a network.</i>		
<ul style="list-style-type: none">• Managing Shared Folders• Understanding Printers• Adding Printers• Configuring Printers		

Windows 2000 Professional MCSE 70-210: Managing Disks

4 hours

WINP05

Windows 2000 Professional MCSE 70-210: Managing Disks describes how to view properties of disks, configure disks, maintain disks, and work with removable media.

- Disk Management
- Viewing Disk Properties
- Configuring Disks
- Maintaining Disks
- Managing Removable Media

Windows 2000 Professional MCSE 70-210: Managing Hardware

4 hours

WINP06

Windows 2000 Professional MCSE 70-210: Managing Hardware describes the installation process for various types of hardware and has step-by-step procedures for installation and configuration of hardware devices in Windows 2000 Professional.

- Adding and Configuring Hardware Devices
- Managing Displays
- Managing I/O and Multimedia Devices
- Managing Other Devices

Windows 2000 Professional MCSE 70-210: Monitoring and Optimising Your System

4 hours

WINP07

Windows 2000 Professional MCSE 70-210: Monitoring and Optimising Your System teaches users how to monitor, troubleshoot, and back up your system for optimum performance.

- Signing, Scheduling, and Offline Files
- Optimising System Performance
- Network and Application Performance
- Recovering from Failure

Windows 2000 Professional MCSE 70-210: Configuring Your Desktop

4 hours

WINP08

Windows 2000 Professional MCSE 70-210: Configuring Your Desktop provides users with an overview of the installation process for Microsoft Windows 2000 Professional and has step-by-step procedures for installation tasks.

- Configuring User Profiles
- Configuring the Desktop Environment
- Installing and Configuring Applications
- Securing the Desktop
- Fax Support and Internet Options

Windows 2000 Professional MCSE 70-210: Networking with Windows 2000 Professional

4 hours

WINP09

Windows 2000 Professional MCSE 70-210: Networking with Windows 2000 Professional provides users with an overview of the Windows network architecture model. Users are provided with step-by-step procedures for configuring and connecting a network with Microsoft Windows 2000 Professional. All types of network service, client, protocol and security issues are explained in the course.

- Networking Models
- Connecting to Shared Resources
- Using Dial-Up Networking
- Fax Support and Internet Options

Windows 2000 Professional MCSE 70-210: Using TCP/IP

4 hours

WINP10

Windows 2000 Professional MCSE 70-210: Using TCP/IP shows users how to configure and troubleshoot the TCP/IP protocol in a Windows 2000 environment and provides step-by-step procedures for common tasks.

- Configuring TCP/IP
- Advanced TCP/IP Configuration
- Troubleshooting TCP/IP Connections
- Resolving Host Names
- Identifying Name Resolution Problems

Windows 2000 Professional MCSE 70-210: Managing Users and Groups

3 hours

WINP11

Windows 2000 Professional MCSE 70-210: Managing Users and Groups provides the user with an overview of user and group accounts, including local and domain user accounts, group accounts, and user rights.

- Placing Accounts in Perspective
- Creating User Accounts
- Using Group Accounts
- Understanding User Rights

Windows 2000 Professional MCSE 70-210: Securing Your System

3 hours

WINP12

Windows 2000 Professional MCSE 70-210: Securing Your System provides users with an overview and step-by-step procedures for configuring, monitoring, and maintaining systems security using audit policies, security templates, and encryption technology for Microsoft Windows 2000 Professional.

- Using Policies
- Monitoring Security Events
- Configuring System Security
- Using the Encrypting File System

Windows 2000 Security Design MCSE 70-220 Series

Total Time: 23 hours

Windows 2000 Security Design MCSE 70-220: Analysing Business Requirements

4 hours

W22001

Windows 2000 Security Design MCSE 70-220: Analysing Business Requirements shows users how to identify business considerations that will affect the structure and implementation of proposed network security designs.

- Business Models
- Organization and Management
- Company Strategies
- Physical and Information Security Models
- Risk Analysis
- End User Requirements

Windows 2000 Security Design MCSE 70-220: Analysing Technical Requirements

4 hours

W22002

Windows 2000 Security Design MCSE 70-220: Analysing Technical Requirements shows users how to evaluate an existing IT infrastructure in preparation for developing a security design.

- Network Connectivity and Topology
- Network Bandwidth and Performance
- Data and Systems Access
- Roles and Responsibilities
- Analysing the Existing Security Design

Windows 2000 Security Design MCSE 70-220: Establishing a Security Baseline

3 hours

W22003

Windows 2000 Security Design MCSE 70-220: Establishing a Security Baseline introduces users to the security provided by Active Directory and shows users how to implement security for domain controllers, servers, and workstations using security templates provided by Windows 2000.

- Active Directory
- Domain Controllers
- Servers, Desktop Computers, and Kiosks
- Policies and Templates

Windows 2000 Security Design MCSE 70-220: Planning Security for System Resources

2 hours

W22004

Windows 2000 Security Design MCSE 70-220: Planning Security for System Resources shows users how to plan and implement security for system resources including printers, files, shares, registry keys, Internet access, and dial-in access.

- File and Folder Security
- Default Settings for Files and Folders
- Registry Keys
- Security for Other Resources

Windows 2000 Security Design MCSE 70-220: Designing a Security Group Strategy

2 hours

W22005

Windows 2000 Security Design MCSE 70-220: Designing a Security Group Strategy shows users how to plan membership in security groups and how to use group structure to assign permissions.

- Understanding Groups in Windows 2000
- Default Groups and Users
- Managing Security Groups
- Delegation of Authority

Windows 2000 Security Design MCSE 70-220: Designing Security Policy Inheritance

3 hours

W22006

Windows 2000 Security Design MCSE 70-220: Designing Security Policy Inheritance shows users how to design the placement and inheritance of security policies for sites, domains, and organizational units.

- Understanding Group Policies
- Implementing Group Policies
- Group Policy Inheritance
- Group Policies in Mixed Mode
- Designing Group Policy Strategies

Windows 2000 Security Design MCSE 70-220: Protecting Resources with Auditing and Encryption

3 hours

W22007

Windows 2000 Security Design MCSE 70-220: Protecting Resources with Auditing and Encryption shows users how to design and implement an audit policy and how to design a strategy for using the Encrypting File System (EFS).

- Designing an Audit Policy
- Implementing an Audit Policy
- Using the Encrypting File System (EFS)
- File Recovery and Management with EFS
- Designing an EFS Strategy

Windows 2000 Security Design MCSE 70-220: Using Native Windows 2000 Authentication

2 hours

W22008

Windows 2000 Security Design MCSE 70-220: Using Native Windows 2000 Authentication explains the Kerberos authentication model and shows users how to implement security with Kerberos in Windows 2000 networks and mixed networks.

- Kerberos Authentication
- Kerberos Client/Server Exchange
- Kerberos Tickets
- Kerberos and Interoperability

Windows 2000 Security Design MCSE 70-220: Using Alternate Authentication Strategies

3 hours

W22009

Windows 2000 Security Design MCSE 70-220: Using Alternate Authentication Strategies explains authentication models other than Kerberos that are available under Windows 2000 and shows users how to implement security with these methods in Windows 2000 networks and in mixed networks.

- NTLM and Digest Authentication
- RADIUS
- Certificate-Based Authentication and SSL
- Authentication and Interoperability
- Smart Cards

Windows 2000 Security Design MCSE 70-220: Designing a Public Key Infrastructure

4 hours

W22010

Windows 2000 Security Design MCSE 70-220: Designing a Public Key Infrastructure explains strategies and procedures for using Certificate Services in Windows 2000 networks and in mixed networks.

- Understanding Certificate Services
- Managing Certificates
- Installing Certificate Services
- Interoperability and Third-Party PKI
- Configuring Certificate Services

Windows 2000 Security Design MCSE 70-220: Designing Security for Network Services

3 hours

W22011

Windows 2000 Security Design MCSE 70-220: Designing Security for Network Services explains strategies for securing Windows 2000 network services, including Domain Name Service, Remote Installation Services, and the Simple Network Management Protocol.

- Understanding DNS
- The Dynamic Update Process
- DNS Security
- RIS Security
- SNMP Security

Windows 2000 Security Design MCSE 70-220: Designing Security for Access between Networks

3 hours

W22012

Windows 2000 Security Design MCSE 70-220: Designing Security for Access between Networks explains how to provide secure access from a private network to the Internet, how to provide partners and other external users with secure access to private networks, and how to provide secure access between multiple local or wide area networks (LANs or WANs).

- Secure Access to Public Networks
- Secure Access for External and Remote Users
- Secure Access between Private Networks
- Secure Access across Public Networks

Windows 2000 Security Design MCSE 70-220: Designing Security for Communications Channels

3 hours

W22013

Windows 2000 Security Design MCSE 70-220: Designing Security for Communications Channels explains how to use SMB signing and the IPSec protocol to secure traffic within private networks and across public networks and how to enable and enforce the use of SMB signing and IPSec through Windows 2000 Group Policy.

- SMB Signing
- IPSec Architecture
- IPSec Negotiation and Encryption
- IPSec Management
- IPSec Policies

Windows 2000 Server MCSE 70-215 Series

Total Time: 46 hours

Windows 2000 Server MCSE 70-215: Installation

4 hours

W21501

Windows 2000 Server MCSE 70-215: Installation provides an overview of the installation process for Microsoft Windows 2000 Server and has step-by-step procedures for installation tasks.

- New Installations
- Deployment
- Unattended Installation Files
- Upgrades
- Troubleshooting

Windows 2000 Server MCSE 70-215: Hardware

4 hours

W21502

Windows 2000 Server MCSE 70-215: Hardware describes how to install, configure, manage, and troubleshoot hardware devices in a Windows 2000 environment.

- Adding and Configuring Hardware
- Managing Displays
- Managing I/O and Multimedia Devices
- Managing Other Devices

Windows 2000 Server MCSE 70-215: Controlling Access to Files and Folders

5 hours

W21503

Windows 2000 Server MCSE 70-215: Controlling Access to Files and Folders shows how to configure interoperability and Web services, manage users and groups, share folders, and manage a distributed file system.

- Configuring Network Services
- Managing Local Users and Groups
- Controlling Access to Shared Folders
- Controlling Access to Local Files
- Using Dfs to Control Access
- Controlling File Access via Web Services

Windows 2000 Server MCSE 70-215: Controlling Access to Web Resources and Printers

4 hours

W21504

Windows 2000 Server MCSE 70-215: Controlling Access to Web Resources and Printers describes the process and capabilities of managing resources shared on a network.

- Controlling Access to Web Sites
- Using Certificates for Web Access Control
- Understanding the Printing Process
- Installing and Configuring Printers
- Managing Printers and Print Jobs

Windows 2000 Server MCSE 70-215: Optimising Your Server

4 hours

W21505

Windows 2000 Server MCSE 70-215: Optimising Your Server describes how to manage processes, monitor system resources, and optimise disk performance.

- Managing Processes
- Monitoring Resource Use
- Using Logs to Monitor Resources
- Increasing Performance
- Optimising Resource Utilization

Windows 2000 Server MCSE 70-215: Recovering from Disaster

4 hours

W21506

Windows 2000 Server MCSE 70-215: Recovering from Disaster describes system tools used to save and recover data.

- Maintaining Recovery Information
- Saving Backup Data
- Data Recovery
- Restoring a Backup

Windows 2000 Server MCSE 70-215: Configuring Disks and Volumes

3 hours

W21507

Windows 2000 Server MCSE 70-215: Configuring Disks and Volumes describes how to monitor, configure, and troubleshoot disks and volumes.

- System and Boot Partitions
- Disk Basics
- Maintaining Basic Disks
- Maintaining Dynamic Disks
- Mounting and Troubleshooting

Windows 2000 Server MCSE 70-215: Administering Disks

3 hours

W21508

Windows 2000 Server MCSE 70-215: Administering Disks describes how to manage user profiles, data compression, and disk quotas, as well as how to recover from a disk failure.

- Managing User Profiles
- Configuring Data Compression
- Configuring Disk Quotas
- Recovering from Disk Failures

Windows 2000 Server MCSE 70-215: Networking Your Server

4 hours

W21509

Windows 2000 Server MCSE 70-215: Networking Your Server describes how to install, configure, and troubleshoot network protocols, services, and connections.

- Network Connections
- Implementing TCP/IP
- Resolving Names and Addresses
- Enabling Network Services

Windows 2000 Server MCSE 70-215: Implementing Remote Access

4 hours

W21510

Windows 2000 Server MCSE 70-215: Implementing Remote Access describes how to install, configure, and troubleshoot shared access, remote access, and virtual private networks.

- Sharing Access
- Configuring Remote Access Services
- Remote Access Policies and Profiles
- Virtual Private Networks

Windows 2000 Server MCSE 70-215: Implementing Terminal Services

3 hours

W21511

Windows 2000 Server MCSE 70-215: Implementing Terminal Services describes how to install, configure, monitor, and troubleshoot Terminal Services.

- Requirements for Terminal Services
- The Terminal Services Server
- The Terminal Services Client
- Administering Terminal Services

Windows 2000 Server MCSE 70-215: Using Security Features

4 hours

W21512

Windows 2000 Server MCSE 70-215: Using Security Features describes how to implement, configure, manage, and troubleshoot security features.

- Local and Group Policies
- Using Account Policies
- Auditing
- EFS Encryption
- Using the Security Configuration Tool Set

Windows NT Server 4.0 Series (Exam 70-067)

Total Time: 16 hours

Prerequisite
Windows NT Workstation 4.0 Series (Exam 70-073)
Time: 20 Hours

WinNT Server 4.0: Planning and Installation	4 hours	NTSTC1
<i>Windows NT Server 4.0 Planning and Installation describes the considerations in planning and installing Windows NT Server 4.0 in a single domain and a single location.</i>		
<ul style="list-style-type: none">• Planning Disk Drive Configuration• Choosing a Protocol• Installing Windows NT Server 4.0• Configuring the Protocols• Managing Disk Storage		

WinNT Server 4.0: Configuration	4 hours	NTSTC2
<i>Windows NT Server 4.0 Configuration describes the techniques for configuring the services and resources to use Windows NT Server 4.0 in a network domain.</i>		
<ul style="list-style-type: none">• Configuring Network Adapters• Configuring Services• Managing Printing Services• Windows NT Server 4.0 and NetWare• Managing Disk Resources• Using the Remote Access Server		

WinNT Server 4.0: Resource Management	4 hours	NTSTC3
<i>Windows NT Server 4.0 Resource Management describes the techniques for managing network clients and providing secure and reliable access to shared network resources.</i>		
<ul style="list-style-type: none">• Managing Users and Groups• Using Windows NT Clients• Using Windows and DOS Clients• Remote Administration		

WinNT Server 4.0: Monitoring and Troubleshooting	4 hours	NTSTC4
<i>Windows NT Server 4.0 Monitoring and Troubleshooting describes the techniques for diagnosing bottlenecks and solving problems that limit access to network resources.</i>		
<ul style="list-style-type: none">• Using Performance Monitor• Resolving Configuration Problems• Troubleshooting RAS• Troubleshooting Connection Problems• Troubleshooting Security Problems• Resolving Fault-Tolerance Failures		

Windows NT Server 4.0 Enterprise Series (Exam 70-068)

Total Time: 8 hours

Two courses in this series provide students with the in-depth technical training necessary to help them prepare for certification exam 70-068, offered by Microsoft through February 28, 2001. The courses were specifically built around the Microsoft Certification Preparation Guides for this exam and they have received the Microsoft Approved Study Guide logo. Both courses in the WinNT Server 4.0 Enterprise Series must be taken to receive the minimum necessary training needed to help students prepare for certification exam 70-068.

<p>Prerequisite</p> <p>Windows NT Workstation 4.0 Series (Exam 70-073)</p> <p>Time: 20 Hours</p>

<p>Prerequisite</p> <p>Windows NT Server 4.0 Series (Exam 70-067)</p> <p>Time: 16 Hours</p>
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<p>WinNT Server 4.0 Enterprise: Configuration</p> <p><i>Windows NT Server 4.0 - Enterprise: Configuration describes the issues to consider in configuring Windows NT Server 4.0 in an enterprise computing environment with multiple servers in multiple domains.</i></p> <ul style="list-style-type: none">• Understanding Domains and Trust Relationships• Choosing a Protocol	<p>4 hours</p>	<p>NTETC1</p>
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<p>WinNT Server 4.0 Enterprise: Connectivity</p> <p><i>Windows NT Server 4.0 - Enterprise: Connectivity describes the techniques for providing internetworking connectivity using Windows NT Server 4.0 in an enterprise computing environment with multiple servers in multiple domains, connecting to multiple locations or using multiple protocols.</i></p> <ul style="list-style-type: none">• Using Multi-Protocol Router• Installing and Managing Internet Information Server• Using Log Files with Performance Monitor	<p>4 hours</p>	<p>NTETC2</p>
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Windows NT Workstation 4.0 Series (Exam 70-073)

Total Time: 20 hours

Prerequisite		
<p>WinNT Wkstn 4.0: Intro. to Windows NT Workstation 4 hours NT4TC1</p> <p><i>Introduction to Windows NT Workstation 4.0 presents the features of Windows NT 4.0 and its interface, which it shares with Windows 95.</i></p> <ul style="list-style-type: none"> • Getting Started with NT Workstation 4.0 • Working in Windows NT 	or	<p>Some experience with Windows NT Workstation 4.0</p>
<p>WinNT Wkstn 4.0: Installation and Configuration 8 hours NT4TC2</p> <p><i>Windows NT Workstation 4.0 Installation and Configuration describes the techniques for installing and configuring Windows NT Workstation 4.0.</i></p> <ul style="list-style-type: none"> • Understanding Windows NT Workstation • Installing Windows NT Workstation 4.0 • Configuring Keyboard, Mouse, and Sound • Changing and Configuring Hardware • Configuring Memory and Multitasking • Configuring for Multimedia • Managing System Services and Devices • Managing the Boot Process • Working with Applications 		
<p>WinNT Wkstn 4.0: Connectivity & Resource Mgmt. 8 hours NT4TC3</p> <p><i>Windows NT Workstation 4.0 Connectivity and Resource Management describes using Windows NT to connect to other computers and managing networked resources.</i></p> <ul style="list-style-type: none"> • Understanding Network Services • Accessing Network Resources • Securing Windows NT Workstation • Managing Shared Resources • Printing and Setting Up Printers • Configuring TCP/IP • Installing and Configuring a Modem • Using Dial-Up Networking • Using Peer Web Services 		
<p>WinNT Wkstn 4.0: Troubleshooting 4 hours NT4TC4</p> <p><i>Windows NT Workstation 4.0 Troubleshooting covers techniques for troubleshooting Windows NT hardware and software problems.</i></p> <ul style="list-style-type: none"> • Working with the Registry • Using the Event Viewer • Optimising NT Workstation Performance • Optimising Disk Storage • Protecting Your Workstation and Its Data • Using the Diagnostics Tool 		

Windows XP Professional MCSE 70-270 Series

Total Time: 20 hours

Windows XP Professional MCSE 70-270: Installation

3 hours

X27001

Windows XP Professional MCSE 70-270: Installation provides users with an overview of the installation process for Microsoft Windows XP Professional.

- Attended Installations
- Automating Installations
- Creating Unattended Installation Files
- Upgrading and Troubleshooting

Windows XP Professional MCSE 70-270: Administering Resources

4 hours

X27002

Windows XP Professional MCSE 70-270: Administering Resources shows how to manage files, folders, and file systems. In addition, it describes the process and capabilities of managing resources shared on a network.

- Sharing Files
- NTFS Permissions
- Managing File Resources
- Administering Printers

Windows XP Professional MCSE 70-270: Configuring Hardware

5 hours

X27003

Windows XP Professional MCSE 70-270: Configuring Hardware describes how to view properties of disks, configure disks, maintain disks, and work with removable media. It also describes the installation and configuration of hardware devices in Windows XP Professional.

- Installing Hardware
- Media Devices
- Input and Output Devices
- Other Devices

Windows XP Professional MCSE 70-270: Optimizing the System

5 hours

X27004

Windows XP Professional MCSE 70-270: Optimizing the System teaches users how to monitor, troubleshoot, and back up the system for optimum performance.

- Driver Signing and Hardware Profiles
- Scheduling and Offline Profiles
- Optimizing Performance
- Optimizing Disks, Network, and Applications
- Recovering from Disaster

Windows XP Professional MCSE 70-270: Configuring the Desktop

3 hours

X27005

Windows XP Professional MCSE 70-270: Configuring the Desktop describes how to configure user profiles and support for multiple languages and locations.

- Configuring User Profiles
- Configuring and Securing the Desktop
- Installing and Configuring Applications
- Fax and Internet Options