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# Technical MCSE

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This document outlines what modules are covered through the “Technical MCSE” programme accessible through Walker Hall Associates. Walker Hall Associates have been providers of training solution to both corporate and individual users for more than 15 years and during this time we have continually improved and expanded the courses available to satisfy the needs of our customers.

The Technical MCSE programme will prepare you for MCSE Core and Elective Exams with Microsoft Approved Study Guides. Learn on-line with a certified MCSP (Microsoft Certified Solution Provider). A more detailed outline of the course is covered in this document.

Online learning does offer a wide range of benefits to the user and is recognised as a convenient and engaging method of delivery.

Why not visit our website ([www.whanet.co.uk](http://www.whanet.co.uk)) where you can view a presentation on the benefits of e-learning for both businesses and individuals. You can also access a sample of our courses to see for your self if e-learning is for you.

## 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**

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### 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**

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### **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**

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### **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 6.5 Series (Exam 70-026)

Total Time: 24 hours

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### **SQL Server 6.5: Introduction**

**4 hours**

**SQSC01**

*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.*

- Introduction to SQL Enterprise Manager
- Creating and Altering Database Objects

### **SQL Server 6.5: Installation and Setup**

**4 hours**

**SQSC02**

*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.*

- Responsibilities of the System Administrator
- SQL Server installation and Connectivity
- Defining Physical and Mirror Devices

### **SQL Server 6.5: Users and Replication**

**4 hours**

**SQSC03**

*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.*

- Security and User Administration
- Introduction to SQL Server 6.5 Replication

### **SQL Server 6.5: Database Administration**

**4 hours**

**SQSC04**

*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.*

- Defining, Altering, and Maintaining Databases and Logs
- DBCC

### **SQL Server 6.5: System Management**

**4 hours**

**SQSC05**

*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.*

- Database Logging and Recovery
- SQL Server Database Backup and Restoration
- Remote Server Management
- The MS SQL Server Distributed Management Framework

### **SQL Server 6.5: Tuning for Performance**

**4 hours**

**SQSC06**

*SQL Server 6.5: Tuning for Performance provides instruction on tuning Microsoft (r) SQL Server (tm) 6.5 to optimise performance*

- Configuring and Tuning SQL Server
- Optimising SQL Server Configuration Options
- Measuring SQL Server System Performance
- Miscellaneous Performance Topics

## SQL Server 7 Admin Series

Total Time: 72 hours

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### **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

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### **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

## Windows 2000 Active Directory MCSE 70-217 Series

Total Time: 31 hours

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<b>Windows 2000 Active Directory MCSE 70-217: Preparing for Active Directory</b>	<b>4 hours</b>	<b>W21701</b>
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*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

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

<b>Windows 2000 Active Directory MCSE 70-217: Administering Active Directory Services</b>	<b>4 hours</b>	<b>W21703</b>
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*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

<b>Windows 2000 Active Directory MCSE 70-217: Managing Servers</b>	<b>3 hours</b>	<b>W21704</b>
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*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

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**Windows 2000 Directory Design MCSE 70-219: 4 hours W21901**  
**Analysing Business Requirements**

*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

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**Windows 2000 Directory Design MCSE 70-219: 3 hours W21902**  
**Analysing the Technical Environment**

*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

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**Windows 2000 Directory Design MCSE 70-219: 3 hours W21903**  
**Analysing Performance and Access**

*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

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**Windows 2000 Directory Design MCSE 70-219: 3 hours W21904**  
**Analysing Security Considerations**

*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: 3 hours W21905**  
**Analysing the Impact of Active Directory**

*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: 2 hours W21906**  
**Analysing Client Management Requirements**

*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: 3 hours W21907**  
**Directory Naming and DNS Placement**

*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: 3 hours W21908**  
**Designing Directory Service Architecture**

*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

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

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

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

<b>Windows 2000 Network Administration MCSE 70-216: Working with WINS and NAT</b>	<b>3 hours</b>	<b>W21604</b>
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*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 Demand-Dial Routing
- Working with RIP
- Managing and Monitoring IP Routing
- Working with OSPF

**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
- Issuing Certificates
- Installing and Configuring a CA
- Working with Certificates and EFS

## Windows 2000 Network Design MCSE 70-221 Series

Total Time: 26 hours

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<b>Windows 2000 Network Design MCSE 70-221: Analysing Business Needs</b>	<b>3 hours</b>	<b>W22101</b>
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*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

<b>Windows 2000 Network Design MCSE 70-221: Analysing Technical Needs</b>	<b>4 hours</b>	<b>W22102</b>
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*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**

*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.*

- 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**

*Windows 2000 Professional MCSE 70-210: Remote Installations and Upgrades describes network, unattended, and upgrade installations of Windows 2000 Professional.*

- Installing over a Network
- Unattended Installations
- Deployment Tools
- Upgrading

### **Windows 2000 Professional MCSE 70-210: Administering Resources**

**3 hours**

**WINP03**

*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.*

- 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**

*Windows 2000 Professional MCSE 70-210: Administering Shared Resources describes the process and capabilities of managing resources shared on a network.*

- 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

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<b>Windows 2000 Security Design MCSE 70-220: Analysing Business Requirements</b>	<b>4 hours</b>	<b>W22001</b>
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*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

<b>Windows 2000 Security Design MCSE 70-220: Analysing Technical Requirements</b>	<b>4 hours</b>	<b>W22002</b>
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*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

<b>Windows 2000 Security Design MCSE 70-220: Establishing a Security Baseline</b>	<b>3 hours</b>	<b>W22003</b>
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*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

<b>Windows 2000 Security Design MCSE 70-220: Planning Security for System Resources</b>	<b>2 hours</b>	<b>W22004</b>
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*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 Tickets
- Kerberos Client/Server Exchange
- Kerberos and Interoperability

## Windows 2000 Server MCSE 70-215 Series

**Total Time: 46 hours**

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### **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
- Remote Access Policies and Profiles
- Configuring Remote Access Services
- 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 Client
- The Terminal Services Server
- 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
- EFS Encryption
- Using Account Policies
- Using the Security Configuration Tool Set
- Auditing

## Windows NT Server 4.0 Series (Exam 70-067)

Total Time: 16 hours

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Prerequisite

### Windows NT Workstation 4.0 Series (Exam 70-073)

Time: 20 Hours

#### **WinNT Server 4.0: Planning and Installation** **4 hours** **NTSTC1**

*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.*

- 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**

*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.*

- 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**

*Windows NT Server 4.0 Resource Management describes the techniques for managing network clients and providing secure and reliable access to shared network resources.*

- 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**

*Windows NT Server 4.0 Monitoring and Troubleshooting describes the techniques for diagnosing bottlenecks and solving problems that limit access to network resources.*

- 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**

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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.

Prerequisite

### **Windows NT Workstation 4.0 Series (Exam 70-073)**

Time: 20 Hours

Prerequisite

### **Windows NT Server 4.0 Series (Exam 70-067)**

Time: 16 Hours

#### **WinNT Server 4.0 Enterprise: Configuration**

**4 hours**

**NTETC1**

*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.*

- Understanding Domains and Trust Relationships
- Choosing a Protocol
- Configuring Protocols
- Using the Browser Service

#### **WinNT Server 4.0 Enterprise: Connectivity**

**4 hours**

**NTETC2**

*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.*

- Using Multi-Protocol Router
- Installing and Managing Internet Information Server
- Using Log Files with Performance Monitor
- Using Network Monitor
- Optimising Performance
- Using Advanced Techniques

## Windows NT Workstation 4.0 Series (Exam 70-073)

**Total Time: 20 hours**

Prerequisite		
<p><b>WinNT Wkstn 4.0: Intro. to Windows NT Workstation</b>      <b>4 hours</b>      <b>NT4TC1</b></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"> <li>• Getting Started with NT Workstation 4.0</li> <li>• Working in Windows NT</li> <li>• Getting Help</li> </ul>	or	<p><b>Some experience with Windows NT Workstation 4.0</b></p>

<p><b>WinNT Wkstn 4.0: Installation and Configuration</b>      <b>8 hours</b>      <b>NT4TC2</b></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"> <li>• Understanding Windows NT Workstation</li> <li>• Installing Windows NT Workstation 4.0</li> <li>• Configuring Keyboard, Mouse, and Sound</li> <li>• Changing and Configuring Hardware</li> <li>• Configuring Memory and Multitasking</li> <li>• Configuring for Multimedia</li> <li>• Managing System Services and Devices</li> <li>• Managing the Boot Process</li> <li>• Working with Applications</li> </ul>
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<p><b>WinNT Wkstn 4.0: Connectivity &amp; Resource Mgmt.</b>      <b>8 hours</b>      <b>NT4TC3</b></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"> <li>• Understanding Network Services</li> <li>• Accessing Network Resources</li> <li>• Securing Windows NT Workstation</li> <li>• Managing Shared Resources</li> <li>• Printing and Setting Up Printers</li> <li>• Configuring TCP/IP</li> <li>• Installing and Configuring a Modem</li> <li>• Using Dial-Up Networking</li> <li>• Using Peer Web Services</li> </ul>
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<p><b>WinNT Wkstn 4.0: Troubleshooting</b>      <b>4 hours</b>      <b>NT4TC4</b></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"> <li>• Working with the Registry</li> <li>• Using the Event Viewer</li> <li>• Optimising NT Workstation Performance</li> <li>• Optimising Disk Storage</li> <li>• Protecting Your Workstation and Its Data</li> <li>• Using the Diagnostics Tool</li> </ul>
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