



**the courseware
company**

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Course overview:

Designing and Implementing Windows 2000 Network Services (70-216, 70-221)

(M753eng)

Overview and objectives

This practical five-day course will provide support professionals with the knowledge and skills necessary to plan, design and implement Microsoft® Windows® 2000 Network Services in an enterprise environment. Topics covered by this course include:

- TCP/IP Addressing
- UNIX Integration
- IP Security
- Implementing DHCP
- Name Resolution Using WINS
- Designing Network Services

Who should attend?

This course is intended for experienced network support professionals, network managers and network designers who are required to plan, design and implement Microsoft Windows 2000 Network Services.

On course completion...

This course will help to prepare students for the following Microsoft Certified Professional exam:

- 70-216 Implementing and Administering a Microsoft Windows 2000 Network Infrastructure
- 70-221 Designing a Microsoft Windows 2000 Network Infrastructure

What are the course prerequisites?

Before attending this course, students should have attended the following courses or have equivalent practical knowledge and experience:

- M744eng Windows 2000 Administration
 - M745eng Windows 2000 Support
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The TCP/IP Transport

- The TCP/IP Protocol Suite • TCP/IP Utilities and Programs • The TCP/IP Protocol Suite • Four Main Layers of the TCP/IP Protocol Suite • Transmission Control Protocol • User Datagram Protocol • Internet Protocol • Address Resolution Protocol • Internet Control Message Protocol • Summary of Protocols • Microsoft's Implementation of TCP/IP • Ports and Sockets • TCP/IP Filtering

TCP/IP Addressing

- IP Addressing • Assigning Addresses • Summary of Addressing Rules • Subnet Addressing • Determining a Remote Address • Defining a Subnet Mask • Subnetting More Than an Octet • Defining Subnet IDs • Defining Hosts Within a Subnet • Supernetting • Private IP Addressing • Planning your IP addressing Scheme • IP Version 6

Routing with Windows 2000

- IP Routing • Configuring a Multi-Homed Computer as a Router • Managing an IP Router • Routing Protocols • Routing Information Protocol • Using RIP in Windows 2000 • Other Protocols • Using NAT With Windows 2000 • Internet Connection Sharing (ICS) • TRACERT • Port Filtering in RRAS • Demand Dial Connections • UNIX Integration • Microsoft TCP/IP Utilities

Internet Services

- Requirements • Installation of IIS 5.0 • Changes Made By Installation • New Default Documents • Configuration and Management • The Hypertext Administration Program • Web Site Properties • FTP Site Properties • SMTP and NNTP Servers • Virtual Servers • Virtual Directories • Connecting to the Internet • The Internet Authentication Service

IP Security

- Security • What is IPSec • Implementing IPSec in Windows 2000 • Creating a Policy • Modifying the Rules

Implementing DHCP

- DHCP Overview • Why Use DHCP • How DHCP Works • How DHCP Clients Lease an IP Address • Initialising State • Selecting State • Requesting State • Bound State • How DHCP Clients Renew Their IP Address Leases • Renewing State • Rebinding State • DHCP Implementation Considerations • Lease Durations • Determining a DHCP Client's IP Address • Configuring DHCP Servers • Creating Your Scope • Reserving Client IP Addresses • Active DHCP Client Leases • Configuring DHCP Options • Commonly Configured DHCP Options • Vendor and User Classes • The DHCP Database • DHCP Relay Agent

Using NetBIOS Over TCP/IP

- What is NetBIOS • NetBIOS Names • Methods of Name Resolution • Node Types • B-Node • Microsoft Modified B-Node • P-Node (or Point to Point Node) • M-Node (or Mixed Node) • H-Node • NBTSTAT • LMHOSTS • Scopes

Name Resolution Using WINS

- Windows Internet Name Service • What is WINS • Why Use WINS • How WINS Works • WINS Implementation Considerations • WINS Proxy Agents • The Contents of the WINS Database • Registered Computer Names • Registered Domain Names • Other Names Registered • WINS Client Configuration • WINS Server Configuration • Creating WINS Static Mappings • Types of Static Mappings • Importing Mappings • Replication of the WINS Database • Push and Pull Replication • WINS Database Replication Considerations • The WINS Database

Certificate Services

- Certificate Authorities • Installing Certificate Services • Requesting a Certificate • Managing Certificates

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