



**the courseware  
company**

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# Course overview:

## Windows 2003 Server Networking MCP exams: 70-291, 70-293 (M760eng)

### Overview and objectives

This 3-day course provides students with the knowledge and skills necessary to plan and implement a Microsoft Windows Server 2003 based network in an enterprise environment.

This course prepares students for Microsoft Certified Professional exams: 70-291 and 70-293.

#### Module 1 - The TCP/IP Transport

- The TCP/IP Protocol Suite • TCP/IP Utilities and Programs • 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

#### Module 2 - 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

#### Module 3 - Routing with Windows Server 2003

- Overview • IP Routing • Configuring a Multi-Homed Computer as a Router • Managing an IP Router • Routing Protocols • Routing Information Protocol • Using RIP in Windows Server 2003 • Network Address Translation protocol (NAT) • Using NAT With Windows Server 2003 • Internet Connection Sharing (ICS) • Other Protocols • Port Filtering in RRAS • Demand Dial Connections • Dial-in Permissions • Troubleshooting Routing

#### Module 4 - UNIX Integration

- Microsoft TCP/IP Utilities

#### Module 5 - Internet Services

- Overview • 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

#### Module 6 - IP Security

- Security • What is IPSec • Implementing IPSec in Windows Server 2003 • Creating a Policy • Modifying the Rules

#### Module 7 - Implementing DHCP

- DHCP Overview • Why Use DHCP • How DHCP Works • How DHCP Clients Lease an IP Address • Initializing 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

#### Module 8 - 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



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#### Module 9 - 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

#### Module 10 - Certificate Services

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

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