



Exam: 98-366

MTA-Networking Fundamentals

Course Length: : 24 Hours
IT Professional Series : 3 Days
Academic Series : 4 Weeks

Module 1: Understanding Local Area Networking

- Examining Local Area Networks, Devices, and Data Transfer
 - Identifying Types of LANs
 - Defining a LAN
 - Getting to Know Perimeter Networks
- Identifying Network Topologies and Standards
 - Identifying Network Topologies
 - Defining Ethernet Standards
 - Identifying the Differences between Client/Server and Peer-to-Peer Distributed Networks

Module 2: Defining Networks with the OSI Model

- Understanding OSI Basics
 - Defining the Layers in the OSI Model
 - Defining the Communications Subnetwork
- Defining the Upper OSI Layers
 - Reviewing the OSI Layer
 - Defining the TCP/IP Model

Module 3: Understanding Wired and Wireless Networks

- Recognizing Wired Networks and Media Types
 - Identifying and Working with Twisted-Pair Cables
 - Identifying and Working with Fiber Optic Cable
- Comprehending Wireless Networks
 - Identifying Wireless Devices
 - Identifying Wireless Networking Standards

Module 4: Understanding Internet Protocol

- Working with IPv4
 - Categorizing IPv4 Addresses
 - Default Gateways and DNS Servers
 - Defining Advanced IPv4 Concepts
 - Defining Classless Inter-Domain Routing (CIDR)
- Working with IPv6
 - Understanding IPv6
 - Configuring IPv6

Module 5: Implementing TCP/IP in the Command Line

- Using Basic TCP/IP Commands
 - Working with the Command Prompt
 - Working with Ipconfig and Ping
 - Working with Advanced TCP/IP Commands

Module 6: Working with Networking Services

- Setting Up Common Networking Services
 - Working with DHCP
 - Working with Terminal Services
- Defining More Networking Services
 - Defining RRAS
 - Defining IPsec
- Defining Name Resolution Techniques
 - Defining DNS
 - Defining WINS

Module 7: Understanding Wide Area Networks

- Understanding Routing
 - Identifying Static and Dynamic Routing
- Defining Common WAN Technologies and Connections
 - Defining Packet Switching
 - Defining T-Carriers
 - Defining Other WAN Technologies and Internet Connectivity

Module 8: Defining Network Infrastructures and Network Security

- Understanding Networks outside the LAN
 - Defining the Internet
 - Defining Intranets and Extranets
 - Understanding VPNs
- Understanding Security Devices and Zones
 - Defining Firewalls and Other Perimeter Security Devices
 - Redefining the DMZ