
Networking Fundamentals

Duration: 3 Days Course Code: M40366

Overview:

This three-day MTA Training course helps you prepare for Microsoft Technology Associate Exam 98-366, and build an understanding of these topics: Network Infrastructures, Network Hardware, and Protocols and Services. This course leverages the same content as found in the Microsoft Official Academic Course (MOAC) for this exam.

Target Audience:

The Microsoft Technology Associate (MTA) is Microsoft's newest suite of technology certification exams that validate fundamental knowledge needed to begin building a career using Microsoft technologies. This program provides an appropriate entry point to a future career in technology and assumes some hands-on experience or training but does not assume on-the-job experience.

Objectives:

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| ■ After completing this course, students will be able to: | ■ Understand Network Hardware |
| ■ Understand Network Infrastructures | ■ Understand Protocols and Services |
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Content:

Understanding Local Area Networking

- Defining a LAN
- Identifying Types of LANs
- 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
- Skill Summary
- Knowledge Assessment
- Workplace Ready

Defining Networks with the OSI Model

- Objective Domain Matrix
- Key Terms
- Understanding OSI Basics
- Defining the Layers in the OSI Model
- Defining the Communications Subnetwork
- Defining the Upper OSI Layers
- Reviewing the OSI Layers
- Defining the TCP/IP Model
- Skill Summary
- Knowledge Assessment
- Workplace Ready

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
- Skill Summary
- Knowledge Assessment
- Workplace Ready

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
- Skill Summary
- Knowledge Assessment
- Workplace Ready

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
- Skill Summary
- Knowledge Assessment
- Workplace Ready

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
- Skill Summary
- Knowledge Assessment
- Workplace Ready

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
- Skill Summary
- Knowledge Assessment
- Workplace Ready

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
- Putting It All Together
- Skill Summary
- Knowledge Assessment
- Workplace Ready

Further Information:

For More information, or to book your course, please call us on 00 966 92000 9278

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