



Networking Fundamentals

Duration: 3 Days **Course Code: M40366**

Overview:

In this course, you will be introduced to networking concepts in today's increasingly connected and technology-driven businesses. You will learn how communication and information transfers are enabled by networking technologies such as the internet, intranet, and extranet, local area networks, wide area networks, wireless networking, network topologies, and access methods. You will also build foundational knowledge in various networking concepts, including the OSI model, IP addressing, internet protocols, and more. This course is designed to help you prepare for Microsoft Technology Associate (MTA) Exam: 98-366 - Networking Fundamentals, which can be taken outside of the course.

Target Audience:

Business or IT professionals, technical sales people, project managers, business analysts, or IT management who need to understand networking fundamentals and work closely with network professionals.

Objectives:

- Networking concepts in an internetworked environment ranging from LANs, WANs, VLANs, extranets, and the internet
 - Physical networking hardware such as routers, switches, and different media types
 - Key networking concepts such as local and wide area networking, the OSI model, basic internet protocols, and IP addressing (IPv4, IPv6)
 - TCP/IP, DNS, and important tools to diagnose Internet connectivity
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Prerequisites:

- An understanding of IT and business environments is beneficial, but not required
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Follow-on-Courses:

- There are no follow-ons for this course.
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Content:

Local Area Networking

- Local Area Networks, Devices, and Data Transfer
- Network Topologies and Standards
- Access Methods
- Networks Outside the LAN
- Security Devices and Zones
- Concepts of the Internet, Intranet, and Extranet

Defining Networks with the OSI Model

- OSI Basics
- Communications Subnetwork
- Upper OSI Layers
- Communications Subnetwork
- OSI Model
- Switches

Wired and Wireless Networks

- Wired Networks and Media Types
- Wireless Networks

Internet Protocol

- IPv4
- IPv6

Implementing TCP/IP in the Command Line

- Using Basic TCP/IP Commands
- Advanced TCP/IP Commands

Networking Services

- Set Up Common Networking Services
- Name Resolution Techniques

Wide Area Networks

- Routing
- Common WAN Technologies and Connections
- Routers
- Wide Area Networks (WANs)

Local Area Networking

- Local Area Networks, Devices, and Data Transfer
- Network Topologies and Standards
- Access Methods
- Networks Outside the LAN
- Security Devices and Zones
- Concepts of the Internet, Intranet, and Extranet

Further Information:

For More information, or to book your course, please Email us on:

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