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## NETWORK +

### Course Description

Network+ is a course that teaches students the fundamentals of networking. Through hands-on training, students learn the vendor-independent networking skills and concepts that affect all aspects of networking, such as installing and configuring the TCP/IP client. The course also helps to prepare students for the following certification examinations: CompTIA Network+ and Microsoft Networking Essentials.

**Prerequisites:** A+ Certification recommended.

### Course Contents

#### Chapter 1: Basic Networking Knowledge

- Network Structure
- Types of Networks
- Server-Based Networks
- Combination Networks
- Network Topologies
- Network Security
- Common Peripherals and Ports

#### Chapter 2: Major Network Operating Systems

- Peer-to-Peer Operating Systems
- Server Operating Systems
- Domain Controllers
- Windows NT/Windows 2000 Server Family
- Novell NetWare
- Microsoft, Novell Interoperability
- UNIX, Linux & AppleTalk

#### Chapter 3: Network Media, Connectors & Access Methods

- Data Transmission and Signaling
- Baseband and Broadband
- Twisted Pair/Coaxial /Fiber Optic cables
- Wireless Technology Options
- Access Methods
- Ethernet Fast, Switched and Gigabit Ethernet
- 100VGAnyLAN
- Token Ring & Token Passing
- FDDI

#### Chapter 4: Protocols

- Connection Oriented & Connectionless Protocols
- OSI Model
- OSI Protocol Summary
- The DOD Reference Module

#### Chapter 5: Network Interface Cards

- Bus Architectures
- System Resources
- NIC Connectors
- Installing and Configuring the NIC
- Updating, Installing and Configuring Drivers

#### Chapter 6: Wide Area Networks

- WAN Architecture
- Circuit Switching
- Packet Switching

- Virtual Circuits
- Switched and Permanent
- Frame Relay
- Asynchronous Transfer Mode
- Synchronous Optical Network
- Comparison of Connection Types

#### Chapter 7: Bridging, Routing & Switching

- OSI Equipment Summary
- Hubs
- Repeaters
- Wireless Access Points
- Bridges
- Switches
- Gateways
- Default Gateway
- Routers
- Brouters
- Network Address Translation

#### Chapter 8: TCP/IP Fundamentals

- TCP/IP Protocol Suite
- NFS/DHCP/DNS/WINS
- LMHosts, Hosts Files
- Line Printer Daemon (LPD)
- X Window
- IP Address Resolution and IP Addressing
- Sub-Netting
- Firewalls and Proxy Servers

#### Chapter 9: TCP/IP Utilities

- Troubleshooting and testing TCP/IP
- TCP/IP Utilities

#### Chapter 10: Remote Connectivity

- Modems
- Integrated Services Digital Network
- Cable Modems
- Remote Service Protocols
- Virtual Private Networks

#### Chapter 11: Network Administration

- Windows NT Workstation Administration
- Netware Configuration and Administration

#### Chapter 12: Troubleshooting the Network