Fast Lane

CompTIA Network+ (NETWORK+)

ID NETWORK+ **Price** on request **Duration** 5 days

Who should attend

This course is intended for entry-level computer support professionals with a basic knowledge of computer hardware, software, and operating systems who wish to increase their knowledge and understanding of networking concepts and acquire the required skills to prepare for a career in network support or administration.

Course Objectives

Developed by CompTIA, the Network+ is a vendor-neutral and globally recognised certification. This certification proves you have the knowledge needed to start a career in networking.

On this course, you'll learn how to configure, manage and troubleshoot common wired and wireless networks. You'll also study emerging technologies, like mobile, cloud and virtualisation, and cover the five key areas of the Network+ curriculum:

- Networking Concepts
- Infrastructure
- Network Operations
- Network Security
- Network Troubleshooting and Tools

Course Content

Module 1: Explaining the OSI Model and TCP/IP Models

- Explain OSI Model Layers
- Explain the TCP/IP Suite

Module 2: Explaining Properties of Network Traffic

- Explain Media Types and Access Methods
- Deploy Ethernet Standards
- Configure and Monitor Network Interfaces

Module 3: Installing and Configuring Switched Networks

- Install and Configure Hubs and Bridges
- Install and Configure Switches

- Compare and Contrast Network Topologies
- Compare and Contrast Network Types

Module 4: Configuring IP Networks

- Configure IPv4 Addressing Components
- Test IP Interfaces with Command Line Utilities
- Configure IPv4 Addressing Components
- Configure Private and Public IPv4 Addressing Schemes
- Configure IPv6 Addressing Components
- Configure DHCP Services

Module 5: Installing and Configuring Routed Networks

- Explain Characteristics of Routing
- Install and Configure Routers

Module 6: Configuring and Monitoring Ports and Protocols

- Explain the Uses of Ports and Protocols
- Use Port Scanners and Protocol Analyzers
- Explain the Use of Name Resolution Services
- Configure DNS and IPAM Services

Module 7: Explaining Network Applications and Storage Services

- Explain the Uses of Network Applications
- Explain the Uses of Voice Services and Advanced Networking Devices
- Explain the Uses of Virtualization and Network Storage Services
- Summarize the Concepts of Cloud Services

Module 8: Monitoring and Troubleshooting Networks

- Monitor Network Interfaces and Logs
- Explain Network Troubleshooting Methodology
- Troubleshoot Common Network Services Issues

Module 9: Explaining Networking Attacks and Mitigations

- Summarize Common Networking Attacks
- Explain the Characteristics of VLANs
- Explain the Characteristics of NAT and Port Forwarding

Module 10: Explaining Network Applications and Storage

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Services

- Installing and Configuring Security Devices
- Explain the Uses of IDS/IPS and UTM

Module 11: Explaining Authentication and Access Controls

- Explain Authentication Controls and Attacks
- Explain the Uses of Authentication Protocols and Directory Services
- Explain the Uses of Port Security and NAC
- Implement Network Device Hardening
- Explain Patch Management and Vulnerability Scanning Processes

Module 12: Deploying and Troubleshooting Cabling Solutions

- Deploy Structured Cabling Systems
- Deploy Twisted-pair Cabling Solutions
- Test and Troubleshoot Twisted-pair Cabling Solutions
- Deploy Coax and Fiber Optic Cabling Solutions

Module 13: Implementing and Troubleshooting Wireless Technologies

- Install and Configure Wireless Technologies
- Troubleshoot Wireless Performance Issues
- Secure and Troubleshoot Wireless Connectivity

Module 14: Comparing and Contrasting WAN Technologies

- Compare and Contrast WAN Core Service Types
- Compare and Contrast WAN Subscriber Service Types
- Compare and Contrast WAN Framing Service Types
- Compare and Contrast Wireless and IoT WAN Technologies

Module 15: Using Remote Access Methods

- Use Remote Access VPNs
- Use Remote Access Management and File Transfer Methods

Module 16: Identifying Site Policies and Best Practices

- Manage Networks with Documentation and Diagrams
- Summarize the Purposes of Physical Security Devices
- Compare and Contrast Business Continuity and Disaster Recovery Concepts
- Identify Policies and Best Practices

CompTIA Network+ (NETWORK+)

Training Centres worldwide

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