

CompTIA Network+



Duration 5 Days

COURSE DESCRIPTION

This most recent update to the CompTIA Network+ certification brings some updates to help keep new learners abreast of how the Network Infrastructure landscape has changed in the last few years. You'll work through the basics of what networking is and how networks are planned, deployed, and maintained. This certification serves as a fantastic entry point for anyone looking to make a career in IT, not just IT networking! The courses here are designed to cover the objectives of the N10-008 exam and can help you prepare for the certification exam.

COURSE OBJECTIVES

In this course, you will describe the major networking technologies and systems of modern networks, and configure, manage, and troubleshoot modern networks.

You will:

- Comparing OSI Model Network Functions
- Deploying Ethernet Cabling
- Deploying Ethernet Switching
- Troubleshooting Ethernet Networks
- Explaining IPv4 Addressing
- Supporting IPv4 and IPv6 Networks
- Configuring and Troubleshooting Routers
- Explaining Network Topologies and Types
- Explaining Transport Layer Protocols
- Explaining Network Services
- Explaining Network Applications
- Ensuring Network Availability
- Explaining Common Security Concepts
- Supporting and Troubleshooting Secure Networks
- Deploying and Troubleshooting Wireless Networks
- Comparing WAN Links and Remote Access Methods
- Explaining Organizational and Physical Security Concepts
- Explaining Disaster Recovery and High Availability Concepts
- Applying Network Hardening Techniques
- Summarizing Cloud and Datacenter Architecture

COURSE OUTLINE

Comparing OSI Model Network Functions

- Compare and Contrast OSI Model Layers
- Configure SOHO Networks

Deploying Ethernet Cabling

- Summarize Ethernet Standards
- Summarize Copper Cabling Types
- Summarize Fiber Optic Cabling Types

Deploying Ethernet Switching

- Deploy Networking Devices
- Explain Network Interfaces
- Deploy Common Ethernet Switching Features

Troubleshooting Ethernet Networks

- Explain Network Troubleshooting Methodology
- Troubleshoot Common Cable Connectivity Issues

Explaining Ipv4 Addressing

- D Explain IPv4 Addressing Schemes
- Explain IPv4 Forwarding
- Configure IP Networks and Subnets

Supporting Ipv4 and Ipv6 Networks

- Use Appropriate Tools to Test IP Configuration
- Troubleshoot IP Networks
- Explain IPv6 Addressing Schemes

Configuring And Troubleshooting Routers

- Compare and Contrast Routing Concepts
- Compare and Contrast Dynamic Routing Concepts
- Install and Troubleshoot Routers

Explaining Network Topologies and Types

- Explain Network Types and Characteristics
- Explain Tiered Switching Architecture
- Explain Virtual LANs

Explaining Transport Layer Protocols

- Compare and Contrast Transport Protocols
- Use Appropriate Tools to Scan Network Ports

Explaining Network Services

- Explain the Use of Network Addressing Services
- Explain the Use of Name Resolution Services
- Configure DNS Services

Explaining Network Applications

- Explain the Use of Web, File/Print, and Database Services
- Explain the Use of Email and Voice Services

Ensuring Network Availability

- Explain the Use of Network Management Services
- Use Event Management to Ensure Network Availability
- Use Performance Metrics to Ensure Network Availability

Explaining Common Security Concepts

- Explain Common Security Concepts
- Explain Authentication Methods

Supporting And Troubleshooting Secure Networks

- Compare and Contrast Security Appliances
- Troubleshoot Service and Security Issues

Deploying And Troubleshooting Wireless Networks

- Summarize Wireless Standards
- Install Wireless Networks
- Troubleshoot Wireless Networks
- Configure and Troubleshoot Wireless Security

Comparing Wan Links And Remote Access Methods

- Explain WAN Provider Links
- Compare and Contrast Remote Access Methods

Explaining Organizational and Physical Security Concepts

- Explain Organizational Documentation and Policies
- Explain Physical Security Methods
- Compare and Contrast Internet of Things Devices

Explaining Disaster Recovery and High Availability Concepts

- Explain Disaster Recovery Concepts
- Explain High Availability Concepts

Applying Network Hardening Techniques

- Applying Network Hardening Techniques
- Apply Network Hardening Techniques

Summarizing Cloud and Datacenter Architecture

- Summarize Cloud Concepts
- Explain Virtualization and Storage Area Network Technologies
- Explain Datacenter Network Architecture

PREREQUISITE

CompTIA A+ and/or a minimum of 9 months networking experience recommended.

WHO SHOULD ATTEND

This course is suitable to students with roles as

- Network Field Technician/Engineer
- Network Administrator
- Help Desk Technician
- Network Support Specialist
- Network Analyst