COURSE OUTLINE

Course Name: CompTIA Network+

DURATION	SKILLS LEVEL	DILIVERY METHOD	TRAINING CREDITS	TECHNOLOGY
5 Days	Intermediate	VITL\In Class	30	Networking

Course Description:

The CompTIA Network+ provides delegates with the knowledge and skills to develop a career in IT infrastructure covering troubleshooting, configuring, and managing network.

This course validates the technical skills needed to securely establish, maintain, and troubleshoot essential networks that businesses rely on.

Prerequisites:

- Before attending this course, delegates should have basic IT skills comprising 9 to 12 months experience.
- CompTIA A+ certification or the equivalent knowledge is strong recommended.

Target Audience:

- The CompTIA Network+ course is the primary course you will need to take if your job responsibilities include network administration, installation and security within your organization.

Learning Objectives:

On completion of this course, delegates will be able to:

- Deploy and troubleshoot Ethernet networks.
- Support IPv4 and IPv6 networks.
- Configure and troubleshooting routers.
- Support network services and applications.
- Ensure network security and availability.
- Deploy and troubleshooting wireless networks.
- Support WAN links and remote access methods.
- Support organizational procedures and site security controls.
- Summarize cloud and data centre architecture.

Course Outline

Lesson 1: Comparing OSI Model Network Functions
- Topic 1A: Compare and Contrast OSI Model Layers
- Topic 1B: Configure SOHO Networks

Lesson 2: Deploying Ethernet Cabling
- Topic 2A: Summarize Ethernet Standards
- Topic 2B: Summarize Copper Cabling Types
- Topic 2C: Summarize Fiber Optic Cabling Types
- Topic 2D: Deploy Ethernet Cabling

Lesson 3: Deploying Ethernet Switching
- Topic 3A: Deploy Networking Devices
- Topic 3B: Explain Network Interfaces
- Topic 3C: Deploy Common Ethernet Switching Features

Lesson 4: Troubleshooting Ethernet Networks
- Topic 4A: Explain Network Troubleshooting Methodology
- Topic 4B: Troubleshoot Common Cable Connectivity Issues

Lesson 5: Explaining IPv4 Addressing
- Topic 5A: Explain IPv4 Addressing Schemes
- Topic 5B: Explain IPv4 Forwarding
- Topic 5C: Configure IP Networks and Subnets

Lesson 6: Supporting IPv4 and IPv6 Networks
- Topic 6A: Use Appropriate Tools to Test IP Configuration
- Topic 6B: Troubleshoot IP Networks
- Topic 6C: Explain IPv6 Addressing Schemes

Lesson 7: Configuring and Troubleshooting Routers
- Topic 7A: Compare and Contrast Routing Concepts
- Topic 7B: Compare and Contrast Dynamic Routing Concepts
- Topic 7C: Install and Troubleshoot Routers

Lesson 8: Explaining Network Topologies and Types
- Topic 8A: Explain Network
- Types and Characteristics
- Topic 8B: Explain Tiered Switching Architecture
- Topic 8C: Explain Virtual LANs

Lesson 9: Explaining Transport Layer Protocols
- Topic 9A: Compare and Contrast Transport Protocols
- Topic 9B: Use Appropriate Tools to Scan Network Ports

Lesson 10: Explaining Network Services
- Topic 10A: Explain the Use of Network Addressing Services
- Topic 10B: Explain the Use of Name Resolution Services
- Topic 10C: Configure DNS Services

Lesson 11: Explaining Network Applications
- Topic 11A: Explain the Use of Web, File/Print, and Database Services
- Topic 11B: Explain the Use of Email and Voice Services

Lesson 12: Ensuring Network Availability
- Topic 12A: Explain the Use of Network Management Services
- Topic 12B: Use Event Management to Ensure Network Availability
- Topic 12C: Use Performance Metrics to Ensure Network Availability

Lesson 13: Explaining Common Security Concepts
- Topic 13A: Explain Common Security Concepts
- Topic 13B: Explain Authentication Methods

Lesson 14: Supporting and Troubleshooting Secure Networks
- Topic 14A: Compare and Contrast Security Appliances
- Topic 14B: Troubleshoot Service and Security Issues

Lesson 15: Deploying and Troubleshooting Wireless Networks
- Topic 15A: Summarize Wireless Standards
- Topic 15B: Install Wireless Networks
- Topic 15C: Troubleshoot Wireless Networks
- Topic 15D: Configure and Troubleshoot Wireless Security

Lesson 16: Comparing WAN Links and Remote Access Methods
- Topic 16A: Explain WAN Provider Links
- Topic 16B: Compare and Contrast Remote Access Methods

Lesson 17: Explaining Organizational and Physical Security Concepts
- Topic 17A: Explain Organizational Documentation and Policies
- Topic 17B: Explain Physical Security Methods
- Topic 17C: Compare and Contrast Internet of Things Devices

Lesson 17: Explaining Organizational and Physical Security Concepts
- Topic 17A: Explain Organizational Documentation and Policies
- Topic 17B: Explain Physical Security Methods
- Topic 17C: Compare and Contrast Internet of Things Devices

Lesson 18: Explaining Disaster Recovery and High Availability Concepts
- Topic 18A: Explain Disaster Recovery Concepts
- Topic 18B: Explain High Availability Concepts

Lesson 19: Applying Network Hardening Techniques
- 439 Topic 19A: Compare and Contrast Types of Attacks
- 440 Topic 19B: Apply Network Hardening Techniques

Lesson 20: Summarizing Cloud and Datacentre Architecture
- Topic 20A: Summarize Cloud Concepts
- Topic 20B: Explain Virtualization and Storage Area Network Technologies
- Topic 20C: Explain datacentre Network Architecture

Associated Exam and Certification:
This course will prepare students to take the **CompTIA Network+ exam N10-008**

Successfully passing this exam will result in the attainment of the **CompTIA Network+ certification.**

After completing this course students will receive a Netcampus course attendance certification.

Your CompTIA Network+ certification is good for three years from the date of your exam. The CE program allows you to extend your certification in three-year intervals through activities and training that relate to the content of your certification.

Exams and Certifications

Notes and Annotations

What is Next