CompTIA N+

Course Duration: 40 Hours   **Course code: N10-009**

1. Course Overview

With CompTIA Network+, you can unlock a diverse range of career paths, from network administration and support to cybersecurity, creating opportunities for advancement and specialization in the rapidly evolving IT industry. CompTIA Network+ is a global IT certification validating candidates have the core skills necessary to establish, maintain, troubleshoot, and secure networks in any environment, regardless of technology and platform.

2. What you'll learn?

On course completion, you will be able to do the following:
• Deploy and troubleshoot Ethernet networks.
• Support IPv4 and IPv6 networks.
• Configure and troubleshoot routers.
• Support network services and applications.
• Ensure network security and availability.
• Deploy and troubleshoot wireless networks.
• Support WAN links and remote access methods.
• Support organizational procedures and site security controls.
• Summarize cloud and datacenter architecture

3. Target Audience

The CompTIA Network+ (N) certification is intended for people who want to work in IT networking and support. This includes network administrators, help desk technicians, and system administrators.

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4. Pre-Requisites

There are no prerequisites, but it is recommended to have the CompTIA A+ certification or equivalent knowledge, plus nine to twelve months of networking experience.

5. Course content

Module 1: Explaining Network Topologies
1.1: Networking Overview
1.2: OSI Model Concepts
1.3: SOHO Networks
1.4: Troubleshooting Methodology

Module 2: Supporting Cabling and Physical Installations
2.1: Ethernet
2.2: Copper Cables and Connectors
2.3: Wiring Implementation
2.4: Fiber Optic Cables and Connectors
2.5: Physical Installation Factors
2.6: Cable Troubleshooting

Module 3: Configuring Interfaces and Switches
3.1: Network Interfaces
3.2: Ethernet Switches
3.3: Switch Port Configuration
3.4: Switch Troubleshooting

Module 4: Configuring Network Addressing
4.1: Internet Protocol Basics
4.2: IP Version 4 Addressing
4.3: IP Version 4 Subnetting
4.4: IP Troubleshooting Tools
4.5: IP Version 6

4.6: IP Troubleshooting

Module 5: Configuring Routing and Advanced Switching
5.1: Routing Technologies
5.2: Dynamic Routing Technologies
5.3: Network Address Translation
5.4: Firewalls
5.5: Enterprise Network Topologies
5.6: Virtual LANs
5.7: Routing and VLAN Troubleshooting

Module 6: Implementing Network Services
6.1: Transport and Application Layer Protocols
6.2: Dynamic Host Configuration Protocol
6.3: APIPA and SLAAC
6.4: DHCP Relay and Troubleshooting
6.5: Domain Name System
6.6: DNS Troubleshooting

Module 7: Explaining Application Services
7.1: Application Security and Time Synchronization
7.2: Web, File/Print, and Database Services
7.3: Email and Voice Services
7.4: Disaster Recovery and High Availability

Module 8: Supporting Network Management
8.1: Organizational Policies and Documentation
8.2: Host Discovery and Monitoring
8.3: Simple Network Management Protocol
8.4: Event Management
8.5: Packet Capture and Analysis
8.6: Traffic Monitoring

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Module 9: Explaining Network Security Concepts

9.1: Security Concepts

9.2: Network Threats and Attacks

9.3: Spoofing Attacks

9.4: Rogue System Attacks

9.5: Social Engineering

Module 10: Applying Network Security Features

10.1: Authentication

10.2: Authorization and Account Management

10.3: Network Hardening

10.4: Switch Security

10.5: Network Security Rules

Module 11: Supporting Network Security Design

11.1: Zone-Based Security

11.2: Internet of Things

11.3: Physical Security

Module 12: Configuring Wireless Networks

12.1: Wireless Concepts and Standards

12.2: Enterprise Wireless Network Design

12.3: Wireless Security

12.4: Wireless Troubleshooting

Module 13: Comparing Remote Access Methods

13.1: WAN and Internet Connectivity

13.2: Virtual Private Networks

13.3: Remote Management

Module 14: Summarizing Cloud Concepts

14.1: Datacenter and Storage Networks

14.2: Cloud Concepts

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14.3: Cloud Networking
14.4: Modern Network Environments

6. Exam Reference

Exam Code	N10-009
Number Of Questions	90
Length Of Test	90 Minutes Max.
Passing Score	720