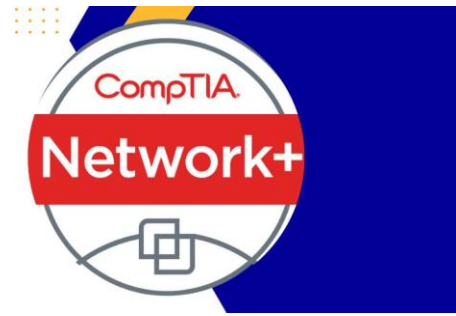




COMPTIA NETWORK+



Duration	Delivery Method	Level
5 days	Online / Instructor Led	Foundation

Introduction:

Course Code: CO-N+

The CompTIA Network+ is a vendor neutral networking certification that is trusted around the world. It validates the essential knowledge and skills needed to confidently troubleshoot, configure, or maintenance of a wired and wireless network. The Network+ performance-based course will help delegates pave their way onto a career in IT Infrastructure and Security. Attending the Network+ course will also assist delegates in preparation for the CompTIA Network+ examination

Audience profile:

This course is intended for IT 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, or who wish to prepare for the CompTIA Network+ certification
(Exam N10-007)

Pre-requisites:

Before attending this course, delegates must:

- Hold the CompTIA A+ certification or;
- Have at least 9 to 12 months of networking experience

Course objectives:

In this course, delegates will describe the major networking technologies and systems of modern networks, and configure, manage, and troubleshoot modern networks. In addition, delegates will be able to:

- Identify basic network theory concepts and major network communications methods
- Describe bounded network media
- Describe unbounded network media
- Identify the major types of network implementations
- Identify TCP/IP addressing and data delivery methods
- Analyse routing and switching technologies
- Identify the components of a TCP/IP implementation
- Analyse network security
- Implement network security
- Identify the components of a WAN implementation.
- Identify the components used in cloud computing and virtualization
- Identify the components of a remote network implementation
- Manage networks
- Troubleshoot network issues

Modules

Module 1: Network Theory

- Network Types
- Network Standards and the OSI Model
- Data Transmission Methods

Module 2: Bounded Network Media

- Copper Media
- Fiber Optic Media
- Bounded Network Media Installation

Module 3: Wireless Networking

- Wireless Networking
- Wireless Network Devices and Components
- Implement Wireless Technology
- Internet of Things

Module 4: Network Implementations

- Physical Network Topologies
- Logical Network Topologies
- Ethernet Networks
- Network Devices

Module 5 : TCP/IP Addressing and Data Delivery

- The TCP/IP Protocol Suite
- IPv4 Addressing
- Default IP Addressing Schemes
- Create Custom IP Addressing schemes
- IPv6 Addressing

Module 6: Routing and Switching

- Switching
- Network Packet Routing
- Static and Dynamic IP Routing
- VLANs

Module 7: TCP/IP Implementation

- Configure IP Addresses
- Naming Services
- TCP/IP Utilities
- Common TCP/IP Protocols

Modules 8: Network Security Implementation

- Introduction to Network Security
- Network Security Policies
- Physical Security
- Common Network Attacks

Modules 9: Network Security Implementation

- Authentication
- Access Control
- Port, Service, and Protocol Security
- Wireless Network Security
- Patches and Updates
- Mitigation techniques

Modules 10 : WAN Infrastructure

- WAN Basics
- WAN Connectivity Methods
- WAN Transmission Technologies
- VoIP

Associated certifications and exam:

This course will prepare delegates to write the CompTIA Network+ N10-007 Exam. Successfully passing this exam will result in the attainment of the CompTIA Network+ Certification