

# CompTIA Network+

## Description

The CompTIA Network+ certification preparation course is designed to provide you with the skills and knowledge necessary to pass the globally recognized CompTIA Network+ certification exam in the field of computer networking.

The CompTIA Network+ certification exam covers the latest trends in networking and validates the core skills necessary to establish, maintain, troubleshoot, and secure networks in any environment, thus preparing learners for a rewarding career in networking and cybersecurity.

## Course Content

### Module 1: Explaining Network Topologies

- Lesson 1: Networking Overview
- Lesson 2: OSI Model Concepts
- Lesson 3: SOHO Networks
- Lesson 4: Troubleshooting Methodology

### Module 2: Supporting Cabling and Physical Installations

- Lesson 1: Ethernet
- Lesson 2: Copper Cables and Connectors
- Lesson 3: Wiring Implementation
- Lesson 4: Fiber Optic Cables and Connectors
- Lesson 5: Physical Installation Factors
- Lesson 6: Cable Troubleshooting

### Module 3: Configuring Interfaces and Switches

- Lesson 1: Network Interfaces
- Lesson 2: Ethernet Switches
- Lesson 3: Switch Port Configuration
- Lesson 4: Switch Troubleshooting

### Module 4: Configuring Network Addressing

- Lesson 1: Internet Protocol Basics
- Lesson 2: IP Version 4 Addressing
- Lesson 3: IP Version 4 Subnetting
- Lesson 4: IP Troubleshooting Tools
- Lesson 5: IP Version 6
- Lesson 6: IP Troubleshooting

### Module 5: Configuring Routing and Advanced Switching

- Lesson 1: Routing Technologies
- Lesson 2: Dynamic Routing Technologies

- Lesson 3: Network Address Translation
- Lesson 4: Firewalls
- Lesson 5: Enterprise Network Topologies
- Lesson 6: Virtual LANs
- Lesson 7: Routing and VLAN Troubleshooting

## **Module 6: Implementing Network Services**

- Lesson 1: Transport and Application Layer Protocols
- Lesson 2: Dynamic Host Configuration Protocol
- Lesson 3: APIPA and SLAAC
- Lesson 4: DHCP Relay and Troubleshooting
- Lesson 5: Domain Name System
- Lesson 6: DNS Troubleshooting

## **Module 7: Explaining Application Services**

- Lesson 1: Application Security and Time Synchronization
- Lesson 2: Web, File, Print, and Database Services
- Lesson 3: Email and Voice Services
- Lesson 4: Disaster Recovery and High Availability

## **Module 8: Supporting Network Management**

- Lesson 1: Organizational Policies and Documentation
- Lesson 2: Host Discovery and Monitoring
- Lesson 3: Simple Network Management Protocol
- Lesson 4: Event Management
- Lesson 5: Packet Capture and Analysis
- Lesson 6: Traffic Monitoring

## **Module 9: Explaining Network Security Concepts**

- Lesson 1: Security Concepts
- Lesson 2: Network Threats and Attacks
- Lesson 3: Spoofing Attacks
- Lesson 4: Rogue System Attacks
- Lesson 5: Social Engineering

## **Module 10: Applying Network Security Features**

- Lesson 1: Authentication
- Lesson 2: Authorization and Account Management
- Lesson 3: Network Hardening
- Lesson 4: Switch Security
- Lesson 5: Network Security Rules

## **Module 11: Supporting Network Security Design**

- Lesson 1: Zone-based Security
- Lesson 2: Internet of Things
- Lesson 3: Physical Security

## **Module 12: Configuring Wireless Networks**

- Lesson 1: Wireless Concepts and Standards
- Lesson 2: Enterprise Wireless Network Design
- Lesson 3: Wireless Security
- Lesson 4: Wireless Troubleshooting

### **Module 13: Comparing Remote Access Methods**

- Lesson 1: WAN and Internet Connectivity
- Lesson 2: Virtual Private Networks
- Lesson 3: Remote Management

### **Module 14: Summarizing Cloud Concepts**

- Lesson 1: Datacenter and Storage Networks
- Lesson 2: Cloud Concepts
- Lesson 3: Cloud Networking
- Lesson 4: Modern Network Environments

### **Lab / Exercises**

- Official CompTIA Labs included

### **Documentation**

- Digital courseware included

### **Exam**

- This course prépare to the exam CompTIA's Network+: N10-009.
- If you wish to take this exam, please contact our secretariat who will let you know the cost of the exam and will take care of all the necessary administrative procedures for you.

### **Participant profiles**

- Junior Network Administrator
- System Administrator
- Datacenter Support Technician
- IT Support Manager
- Tier II Support Technician

### **Prerequisites**

- Be CompTIA A+ certified

### **Objectives**

- Establish network connectivity by deploying wired and wireless devices.
- Understand and maintain network documentation.
- Understand the purpose of network services.
- Understand basic datacenter, cloud and virtual networking concepts.
- Monitor network activity, identifying performance and availability issues.
- Implement network hardening techniques.
- Manage, configure, and troubleshoot network infrastructure.

### **Niveau**

Intermédiaire

**Classroom Registration Price (CHF)**

3800

**Virtual Classroom Registration Price (CHF)**

3550

**Duration (in Days)**

5

**Reference**

COM-02