



REAL WORLD
TECHNOLOGY TRAINING & SOLUTIONS
"Training You Can Really Use"

CompTIA® Network+®

Duration: 5 Days

Method: Instructor-Led Training (ILT) | Live Online Training

Certification: CompTIA Network+ — **Exam:** N10-009

Course Description

This course builds on participants' existing user-level knowledge and experience with personal computer operating systems and networks. It presents the fundamental skills and concepts that participants will need to use on the job in any type of networking career.

Target Audience

This course is intended for:

- IT Professionals such as:
 - Network Administrators
 - Network Technicians
 - Network Installers
 - Help Desk Technicians
 - IT Cable Installers
- Persons who wish to prepare for the certification exam.

Prerequisites

To attend this course, candidates must have:

- Obtained the *CompTIA A+* certification or have 9-12 months of IT administration knowledge and experience.
- Knowledge of basic network terminology and functions such as Ethernet, TCP/IP, switches, routers.
- The ability to configure and support PC, laptop, mobile (smartphone/tablet), and print devices.
- The ability to configure and manage users, groups, and shared resources in a simple SOHO network.
- Understanding of the use of basic access control measures, such as authentication, security policy, encryption, and firewalls.



Microsoft Partner

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Exam Details

Exam Code:	• N10-009
Length of Exam:	• 90 Minutes
Number of Questions:	• 90 Questions Maximum
Passing Score:	• 720 (on a scale of 100-900)
Question Format:	• Multiple Choice & Performance-Based

Course Objectives

Upon successful completion of this course, attendees 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 datacentre architecture.





Course Topics

Module 1: Comparing OSI Model Network Functions

- Compare and Contrast OSI Model Layers
- Configure SOHO Networks

Module 2: Deploying Ethernet Cabling

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

Module 3: Deploying Ethernet Switching

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

Module 4: Troubleshooting Ethernet Networks

- Explain Network Troubleshooting Methodology
- Troubleshoot Common Cable Connectivity Issues

Module 5: Explaining IPv4 Addressing

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

Module 6: Supporting IPv4 and IPv6 Networks

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

Module 7: Configuring and Troubleshooting Routers

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

Module 8: Explaining Network Topologies and Types

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

Module 9: Explaining Transport Layer Protocols

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

Module 10: Explaining Network Services

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





Course Topics *Continued*

Module 11: Explaining Network Applications

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

Module 12: Ensuring Network Availability

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

Module 13: Explaining Common Security Concepts

- Explain Common Security Concepts
- Explain Authentication Methods

Module 14: Supporting and Troubleshooting Secure Networks

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

Module 15: Deploying and Troubleshooting Wireless Networks

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

Module 16: Comparing WAN Links and Remote Access Methods

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

Module 17: Explaining Organizational and Physical Security Concepts

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

Module 18: Explaining Disaster Recovery and High Availability Concepts

- Explain Disaster Recovery Concepts
- Explain High Availability Concepts

Module 19: Applying Network Hardening Techniques

- Compare and Contrast Types of Attacks
- Apply Network Hardening Techniques

Module 20: Summarizing Cloud and Datacentre Architecture

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

LABS INCLUDED

