CompTIA Network+

Course Duration: 5 Days
Exam Reference: N10-009

Course Overview

The CompTIA Network+ certification is globally recognized for its comprehensive approach to IT networking, an aspect of tech that closely relates to other facets of IT such as cloud computing, virtualization, software development, cybersecurity, and more. IT professionals in every organization need to have strong networking skills to keep systems connected and running properly. CompTIA Network+ (N10-009) prepares tech professionals to do just that.

The updated CompTIA Network+ (N10-009) is a vendor-neutral networking certification that prepares those entering or advancing in IT careers with a strong foundation to work on networks on any platform. CompTIA Network+ validates the technical skills IT professionals need to securely establish, maintain, and troubleshoot the essential networks on which small businesses, corporations, and governments rely. Over 500,000 IT pros worldwide have chosen CompTIA Network+ to ignite their IT careers since its inception.

Employers and organizations know this and have benefited firsthand from Network+ certified employees. Primary job roles that directly utilize the skills candidates will learn from the new CompTIA Network+ exam include:

- Junior network administrator
- Systems administrator
- NOC Technician

Secondary job roles that may benefit from the skills you learn on the CompTIA Network+ exam include:

- Datacenter Support Technician
- Telecommunications Technician
- IT Support Manager

APPLIED TECHNOLOGY ACADEMY

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Prerequisites

To get the most out of CompTIA Network+ and be able to prepare for your exam, you should ideally have successfully completed the "CompTIA A+ Support Skills" course, earned the CompTIA A+ certification, and have about 9-12 months of experience of networking support or IT administration. It is not necessary that you pass the A+ exams before completing Network+ certification, but it is recommended.

Regardless of whether you have passed A+, it is recommended that you have the following skills and knowledge before starting this course:

- Configure and support PC, laptop, mobile (smartphone / tablet), and print devices.
- Know basic network terminology and functions (such as Ethernet, TCP/IP, switches, routers).
- Configure and manage users, groups, and shared resources in a simple SOHO network.
- Understand the use of basic access control measures, such as authentication, security policy, encryption, and firewalls.
- Understand TCP/IP addressing, core protocols and troubleshooting tools.

Course Objectives

Technology is ever-changing, and CompTIA certifications are routinely updated for that reason. CompTIA Network+ is accredited by ANSI and meets multiple U.S. DoD directive requirements. This ensures that the subject matter is kept up-to-date and meets real world needs, including some of the most important skills required of IT pros.

Such skills include:

- Understanding IP addressing, mapping networks, and ensuring connectivity and network availability.
- Strong grasp on wireless standards and technologies that are continually evolving.
- Implementing strategies to secure and harden networks against malicious attacks and presenting corporate networks with a first line of defense.
- Extensive troubleshooting of common networking issues occurring both within devices and across their intricate connections.
- Troubleshooting end-user issues for a variety of common networking problems.

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Course Outline

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

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Module 10: Explaining Network Services
- Explain the use of network addressing services
- Explain the use of name resolution services
- Configure DNS services

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 Datacenter Architecture