

# Network+

## Course Description

SecureNinja's Network+ training and certification boot camp in Washington, DC provides hands-on, instructor-led training that prepares students to take the Network+ exam. The CompTIA Network+ certification is a sign of a competent networking professional. It is an international, vendor-neutral certification that proves a technician's competency in managing, maintaining, troubleshooting, installing, and configuring basic network infrastructure.

The exam covers network technologies, installation and configuration, media and topologies, management, and security. Candidate job roles include network administrator, network technician, network installer, help desk technician, and IT cable installer.

Companies such as Dell, HP, Ricoh, Sharp, and Xerox recommend or require CompTIA Network+ for their networking technicians. It is a technical prerequisite option for IT technicians seeking to join the Apple Consultants Network and is recognized by the U.S. Department of Defense.

Although not a prerequisite, it is recommended that CompTIA Network+ candidates have at least nine months of experience in network support or administration or academic training, along with a CompTIA A+ certification.

CompTIA Network+ N10-009 has been updated and reorganized to address the current networking technologies with expanded coverage of several domains by adding:

- Critical security concepts to helping networking professionals work with security practitioners
- Key cloud computing best practices and typical service models
- Coverage of newer hardware and virtualization techniques
- Concepts to give individuals the combination of skills to keep the network resilient

## Topics Covered

### Domain 1: Networking Concepts

- Explain the purposes and uses of ports and protocols.
- Explain devices, applications, protocols and services at their appropriate OSI layers.
- Explain the concepts and characteristics of routing and switching.
- Configure the appropriate IP addressing components.
- Compare and contrast the characteristics of network topologies, types and technologies.
- Implement the appropriate wireless technologies and configurations.
- Summarize cloud concepts and their purposes.
- Explain the functions of network services.

## Domain 2: Infrastructure

- Explain the purposes and use cases for advanced networking devices.
- Determine the appropriate placement of networking devices on a network and install/configure them.
- Explain the purposes of virtualization and network storage technologies.
- Compare and contrast WAN technologies.

## Domain 3: Network Operations

- Compare and contrast business continuity and disaster recovery concepts.
- Use appropriate documentation and diagrams to manage the network.
- Explain common scanning, monitoring and patching processes and summarize their expected outputs.
- Use remote access methods.
- Identify policies and best practices.

## Domain 4: Network Security

- Summarize the purposes of physical security devices.
- Explain authentication and access controls.
- Secure a basic wireless network.
- Summarize common networking attacks.
- Implement network device hardening.
- Explain common mitigation techniques and their purposes.

## Domain 5: Network Troubleshooting and Tools

- Explain the network troubleshooting methodology.
- Troubleshoot common wired connectivity and performance issues.
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- Troubleshoot common network service issues.

## Who Would Benefit

This course is designed for students who are looking to gain a wider understanding of IT concepts, especially those concerning computer networking infrastructure. The Network+ certification is essential for those who are looking to gain higher certifications such as CCNA, Security+, and CASP.

## Prerequisites

While there are no formal prerequisites, it is recommended that candidates have CompTIA A+ certification and **9 to 12 months** of hands-on experience in a junior network administrator or network support technician role.

## Exam Details

- Number of Questions: Maximum of 90
- Question Types: Multiple-choice and performance-based

- Duration: 90 minutes
- Passing Score: 720 (on a scale of 100 to 900)

### **Follow-on Courses**

- CompTIA Security+
- Cisco CCNA

### **Course Length**

- 5 Days
- 40 Hours

### **Career Track & Roles**

- Help Desk Technician
- Help Desk Administrator
- Remote Support Technician
- Backup Administrator
- Network Administrator
- Systems Administrator
- Systems Engineer
- Systems Architect
- Network Security Specialist
- Information Security Specialist