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Learning Style: Virtual Classroom

Technology: CompTIA

Difficulty: Beginner

Course Duration: 5 Days

Next Course Date: **March 9, 2026**

## CompTIA Network+ (Exam N10-009) (ComptiaNet)



With the passage of time, data networks have become more and more critical and their significance have grown over the years. Those healthcare, financial, and information services which are highly confidential in nature are given a lifeline using data networks. By obtaining a CompTIA Network+ certification, you will be able to configure, troubleshoot and manage systems in order to keep your organization or

the organization you work for, productive.

The course has been designed to provide the students with the knowledge as well as key skills needed for maintaining, installing, managing, operation, configuring, and troubleshooting basic network infrastructure, explain basic design principles along with networking technologies, use testing tools, and adhere to wiring standards. If you wish to begin your network career, then this the first step, right here! The certification is recognized by different vendors like Novell, Microsoft, Red Hat, and Cisco within their certification tracks.

If you plan to take and clear the CompTIA Network+ (Exam N10-009) exam, then this course will help you in preparing for it. However, having only a certification is not going to cut it for the competitive job market of today, you need to exhibit exceptional skills as well. This course will help you in developing the right skills set, especially when it comes to security, so that all duties can be performed diligently.

An IT Network Specialist can earn up to **\$92,000/-** on average, per annum.

### **Course Objectives:**

Once the course is complete, the candidate will be able to

- Explain concepts related to the Open Systems Interconnection (OSI) reference model.
- Compare and contrast networking appliances, applications, and functions.
- Summarize cloud concepts and connectivity options.
- Explain common networking ports, protocols, services, and traffic types.
- Compare and contrast transmission media and transceivers.
- Compare and contrast network topologies, architectures, and types.
- Given a scenario, use appropriate IPv4 network addressing
- Summarize evolving use cases for modern network environments.
- Explain characteristics of routing technologies.
- Given a scenario, configure switching technologies and features.
- Given a scenario, select and configure wireless devices and technologies.
- Explain important factors of physical installations.
- Explain the purpose of organizational processes and procedures.
- Given a scenario, use network monitoring technologies.

- Explain disaster recovery (DR) concepts.
- Given a scenario, implement IPv4 and IPv6 network services.
- Explain the importance of basic network security concepts
- Summarize various types of attacks and their impact to the network.
- Given a scenario, apply network security features, defense techniques, and solutions.
- Explain the troubleshooting methodology.
- Given a scenario, troubleshoot common cabling and physical interface issues.
- Given a scenario, troubleshoot common issues with network services.
- Given a scenario, troubleshoot common performance issues.
- Given a scenario, use the appropriate tool or protocol to solve networking issues.

## **Audience:**

The course is intended to be undertaken by computer support professionals who may be either looking for or occupying entry level positions, having a basic knowledge of computer software, hardware, and operating systems. It is also intended to be opted for by those who wish to take the CompTIA® Network+® (Exam N10-009). Additionally, anybody who wants to enhance their understanding and knowledge of networking concepts while gaining the skills needed to excel in network support career or administration career, then this course is a must for them.

The candidate opting for this course must have at least 9 months of computer support experience as a help desk or PC technician. Having prior experience in networking or A+ certification will become a huge advantage, but it is not mandatory for the candidate to have these before enrolling in this course.

## **Prerequisites:**

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.
- At least 9 to 12 months of work experience in IT networking

## Course Outline:

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- **Networking Concepts**
- **Network Implementations**
- **Network Operations**
- **Network Security**
- **Network Troubleshooting**

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