

# Online CompTIA Network+ Certification Course

110 Hours / 6 Months

## Course Description

Building and maintaining networks are among the most important skills to have as an IT professional. Whether you're new to the field or ready to move forward in your career, a CompTIA Network+ certification course could be a great next step. This certification confirms that you have the knowledge you need to configure and troubleshoot both wireless and wired hardware. You'll stand out among other job candidates when you gain the experience this online course provides and earn this valuable credential.

In the course, you'll learn the fundamentals you need to prepare for the CompTIA Network+ certification exam (N10-007) and start a career as a network technician. With its comprehensive curriculum, you'll master basic networking concepts and learn about network design, security, routing and switching, cloud computing, IPv6 and forensics, and common security practices.

To help you learn networking skills in an interactive setting, you can set up your own virtual lab environment using VirtualBox. With VirtualBox, you'll have the opportunity to put your new knowledge into action with networking scenarios you're likely to encounter during your IT career.

## Prerequisites

There are no prerequisites to enroll in this course, however you should have basic knowledge of computer hardware, operating systems, and networks.

## What You Will Learn

- How to install, configure, and differentiate between common network devices.
- Routing protocols, computer forensic practices, and addressing and cloud computing technologies.
- All about WAN/LAN technology, addressing services like DHCP, the OSI model and the TCP/IP model, and Domain Name Services (DNS).
- How to implement a basic wireless network and wireless security.
- How to conduct network monitoring and perform network performance optimization.

## Hardware Requirements

- This course can be taken on either a PC or Mac. Mac users are encouraged to have access to a Windows environment on their device.

## Software Requirements

- PC: Windows 8 or newer.
- Mac: OS X Snow Leopard 10.6 or later.
- Browser: The latest version of Google Chrome or Mozilla Firefox are preferred. Microsoft Edge and Safari are also compatible.
- Adobe Acrobat Reader. [Click here](#) to download.
- Software must be installed and fully operational before the course begins.

## Other

- Email capabilities and access to a personal email account.

## Course Outline

MODULE	TOPICS COVERED
1: Network Architecture	<ul style="list-style-type: none"> <li>• How to install, configure, and differentiate between common network devices.</li> <li>• Routing protocols, computer forensic practices, and addressing and cloud computing technologies.</li> <li>• All about WAN/LAN technology, addressing services like DHCP, the OSI model and the TCP/IP model, and Domain Name Services (DNS).</li> <li>• How to implement a basic wireless network and wireless security.</li> <li>• How to conduct network monitoring and perform network performance optimization.</li> </ul>
2: Network Operations	<ul style="list-style-type: none"> <li>• How to install, configure, and differentiate between common network devices.</li> <li>• Routing protocols, computer forensic practices, and addressing and cloud computing technologies.</li> <li>• All about WAN/LAN technology, addressing services like DHCP, the OSI model and the TCP/IP model, and Domain Name Services (DNS).</li> <li>• How to implement a basic wireless network and wireless security.</li> <li>• How to conduct network monitoring and perform network performance optimization.</li> </ul>
3: Network Security	<ul style="list-style-type: none"> <li>• How to install, configure, and differentiate between common network devices.</li> <li>• Routing protocols, computer forensic practices, and addressing and cloud computing technologies.</li> <li>• All about WAN/LAN technology, addressing services like DHCP, the OSI model and the TCP/IP model, and Domain Name Services (DNS).</li> <li>• How to implement a basic wireless network and wireless security.</li> <li>• How to conduct network monitoring and perform network performance optimization.</li> </ul>
4: Troubleshooting	<ul style="list-style-type: none"> <li>• How to install, configure, and differentiate between common network devices.</li> <li>• Routing protocols, computer forensic practices, and addressing and cloud computing technologies.</li> <li>• All about WAN/LAN technology, addressing services like DHCP, the OSI model and the TCP/IP model, and Domain Name Services (DNS).</li> <li>• How to implement a basic wireless network and wireless security.</li> <li>• How to conduct network monitoring and perform network performance optimization.</li> </ul>
5: Industry standards, practices and network theory	<ul style="list-style-type: none"> <li>• How to install, configure, and differentiate between common network devices.</li> <li>• Routing protocols, computer forensic practices, and addressing and cloud computing technologies.</li> <li>• All about WAN/LAN technology, addressing services like DHCP, the OSI model and the TCP/IP model, and Domain Name Services (DNS).</li> <li>• How to implement a basic wireless network and wireless security.</li> <li>• How to conduct network monitoring and perform network performance optimization.</li> </ul>