

CompTIA Network+ Certification

This course builds on your existing user-level knowledge and experience with personal computer operating systems and networks, adding fundamental skills and concepts that you will need to advance in a networking career. Covering the concepts and skills needed to plan, install, maintain, and troubleshoot modern networks in a vendor-neutral format. This includes physical network components and technologies, logical structures, common protocols, and network security.

How you'll benefit

This class will help you:

- In two ways. If you intend to pass the CompTIA Network+ (Exam N10-008) certification examination, this course can be a significant part of your preparation.
- But certification is not the only key to professional success in the field of computer security.
- Today's job market demands individuals with demonstrable skills, and the information and activities in this course can help you build your computer security skill set so that you can confidently perform your duties in any network-related role.

Why Attend with Current Technologies CLC

- Our Instructors are in the top 10%
- Our Lab has a dedicated 1 Gig Fiber Connection for our Labs
- Our Labs Run up to Date Code for all our courses

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Objectives

Upon completing this course, the student will be able to meet these objectives:

- Describe the features of different network protocols and products for LANs, WANs, and wireless networks
- Understand the functions and features of TCP/IP addressing and protocols
- Identify threats to network security and appropriate countermeasures and controls
- Install and configure network cabling and appliances
- Manage, monitor, and troubleshoot networks
- Explain the OSI and TCP/IP Models
- Explain the properties of network traffic
- Install and configure switched networks
- Configure IP networks
- Install and configure routed networks
- Configure and monitor ports and protocols
- Explain network application and storage issues
- Monitor and troubleshoot networks
- Explain network attacks and mitigations
- Install and configure security devices
- Explain authentication and access controls
- Deploy and troubleshoot cabling solutions
- Implement and troubleshoot wireless technologies
- Compare and contrast WAN technologies
- Use remote access methods
- Identify site policies and best practices

Course Duration

5 day

Course Price

\$2,895.00

Methods of Delivery

- Instructor Led
- Virtual ILT
- On-Site

Certification Exam

N10-008

Who Should Attend

The job roles best suited to the material in this course are:

- Entry-level computer support professionals
- Those preparing for the Network+ Exam N10-008
- Those wanting to increase their knowledge and understanding of networking concepts and acquire the required skills to prepare for a career in network support or administration.

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Prerequisites

To fully benefit from this course, you should have the following knowledge:

- 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 if 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

Outline

Module 1: Introduction

- Course setup
- Network skills pre-assessment

Module 1: Fundamentals

- Networking concepts
- Classifying networks
- Network models
- The troubleshooting process

Module 2: LAN technologies

- Connection technologies
- Network devices

Module 3: Physical connections

- Copper media

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- Optical media
- Ethernet standards

Module 4: IP protocols

- IP addresses
- Address resolution and assignment

Module 5: TCP/IP protocols

- Core protocols
- Network ports and applications

Module 6: Internetworking

- Switching
- Routing
- Data center architecture

Module 7: Wireless LANs

- Wireless networks
- Wireless LAN standards

Module 8: Wide area networks

- Internet connections
- WAN infrastructure

Module 9: Cybersecurity principles

- Goals and threats
- Digital security
- Transport encryption

Module 10: Defending networks

- Network security components
- Physical security

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- Network authentication systems
- Hardening networks

Module 11: Evolving network technologies

- Network convergence
- Virtual and cloud systems

Module 12: Network operations

- Monitoring and optimization
- Fault tolerance and disaster recovery
- Incident response

Module 13: Network planning

- Network policy design
- Network installation
- Maintenance and upgrades