Network+

Price	Duration	Delivery Methods
$1,495.00	5 Daytime Classes or 10 Evening Classes	Virtual, Private Group,

CAREER SKILLS+™

CompTIA's Network+ certification is a foundation-level certification designed for IT professionals with around one year of experience, whose job role is focused on network administration.

The CompTIA Network+ exam will certify the successful candidate has the knowledge and skills required to troubleshoot, configure, and manage common network devices; establish basic network connectivity; understand and maintain network documentation; identify network limitations and weaknesses; and implement network security, standards, and protocols. The candidate will have a basic understanding of enterprise technologies, including cloud and virtualization technologies.

The Official CompTIA® Network+® (Exam N10-008): will teach you the fundamental principles of installing, configuring, and troubleshooting network technologies and

help you to progress a career in network administration. In this course, you will build on your existing user-level knowledge and experience with personal computer operating systems and networks to master the fundamental skills and concepts that you will need to use on the job in any type of networking career.

Who Should Attend

This course is intended for entry-level computer support professionals with a basic knowledge of computer hardware, software, and operating systems who wish to increase their knowledge and understanding of networking concepts and acquire the required skills to prepare for a career in network support or administration, or who wish to prepare for the CompTIA Network+ certification. CompTIA Network+ is the first certification IT professionals specializing in network administration and support should earn. Network+ is aimed at IT professionals with job roles such as network administrator, network technician, network installer, help desk technician, and IT cable installer. This course is also designed for students who are seeking the CompTIA Network+ certification and who want to prepare for the CompTIA Network+ N10-008 Certification Exam

Course Objectives

CompTIA A+ Certification (Exams 220-1001 and 220-1002)

Agenda

1 - Explaining the OSI and TCP/IP Models
Topic A: Explain OSI Model Layers
Topic B: Explain the TCP/IP Suite
2 - Explaining Properties of Network Traffic
Topic A: Explain Media Types and Access Methods
Topic B: Deploy Ethernet Standards
Topic C: Configure and Monitor Network Interfaces
3 - Installing and Configuring Switched Networks
Topic A: Install and Configure Hubs and Bridges
Topic B: Install and Configure Switches
Topic C: Compare and Contrast Network Topologies
Topic D: Compare and Contrast Network Types
4 - Configuring IP Networks
Topic A: Configure IPv4 Addressing Components
Topic B: Test IP Interfaces with Command Line Tools
Topic C: Configure IPv4 Subnets

Topic D: Configure Private and Public IPv4 Addressing Schemes
Topic E: Configure IPv6 Addressing Components
Topic F: Configure DHCP Services

5 - Installing and Configuring Routed Networks

Topic A: Explain Characteristics of Routing
Topic B: Install and Configure Routers

6 - Configuring and Monitoring Ports and Protocols

Topic A: Explain the Uses of Ports and Protocols
Topic B: Use Port Scanners and Protocol Analyzers
Topic C: Explain the Use of Name Resolution Services
Topic D: Configure DNS and IPAM Services

7 - Explaining Network Application and Storage Services

Topic A: Explain the Uses of Network Applications
Topic B: Explain the Uses of Voice Services and Advanced Networking Devices
Topic C: Explain the Uses of Virtualization and Network Storage Services
Topic D: Summarize the Concepts of Cloud Services

8 - Monitoring and Troubleshooting Networks

Topic A: Monitor Network Interfaces and Logs
Topic B: Explain Network Troubleshooting Methodology
Topic C: Troubleshoot Common Network Services Issues

9 - Explaining Networking Attacks and Mitigations

Topic A: Summarize Common Networking Attacks
Topic B: Explain the Characteristics of VLANs
Topic C: Explain the Characteristics of NAT and Port Forwarding

10 - Installing and Configuring Security Devices

Topic A: Install and Configure Firewalls and Proxies
Topic B: Explain the Uses of IDS/IPS and UTM

11 - Explaining Authentication and Access Controls

Topic A: Explain Authentication Controls and Attacks
Topic B: Explain the Uses of Authentication Protocols and Directory Services
Topic C: Explain the Uses of Port Security and NAC
Topic D: Implement Network Device Hardening
Topic E: Explain Patch Management and Vulnerability Scanning Processes

12 - Deploying and Troubleshooting Cabling Solutions

Topic A: Deploy Structured Cabling Systems
Topic B: Deploy Twisted Pair Cabling Solutions
Topic C: Test and Troubleshoot Twisted Pair Cabling Solutions
Topic D: Deploy Fiber Optic Cabling Solutions

13 - Implementing and Troubleshooting Wireless Technologies
Topic A: Install and Configure Wireless Technologies
Topic B: Troubleshoot Wireless Performance Issues
Topic C: Secure and Troubleshoot Wireless Connectivity
14 - Comparing and Contrasting WAN Technologies
Topic A: Compare and Contrast WAN Core Service Types
Topic B: Compare and Contrast WAN Subscriber Service Types
Topic C: Compare and Contrast WAN Framing Service Types
Topic D: Compare and Contrast Wireless and IoT WAN Technologies
15 - Using Remote Access Methods
Topic A: Use Remote Access VPNs
Topic B: Use Remote Access Management Methods
16 - Identifying Site Policies and Best Practices
Topic A: Manage Networks with Documentation and Diagrams
Topic B: Summarize the Purposes of Physical Security Devices
Topic C: Compare and Contrast Business Continuity and Disaster Recovery Concepts
Topic D: Identify Policies and Best Practices