

CompTIA Network+ Certification

Virtual Live Instructor-led or Available On-Site



Course Description

This extensive Virtual Live Instructor-led CompTIA Network+ meets the NEW DoD Directive 8140 requirements and the latest version (N10-007).

This course will provide official CompTIA Virtual Live Exam and Testing Certification.

-Testing Voucher with Virtual Testing and Certification on Last Day.

Will Department of Defense (DoD) Directive 8140 replace DoDD 8570? Yes.

When will DoD 8140 take effect? It is already in effect.

Why Change from 8570 to 8140?

DoD 8140 is designed to be more flexible and inclusive than DoD 8570. DoD 8140 includes initiatives such as NIST NICE (National Initiative for Cybersecurity Education), which identifies critical KSAs (Knowledge, Skills, and Abilities) and places cybersecurity positions into 7 categories (1. Security Provision, 2. Operate & Maintain, 3. Protect & Defend, 4. Analyze, 5. Operate & Collect, 6. Oversight & Development, and 7. Investigate) consisting of 31 specialty areas.

BTS works with clients to deliver appropriate material to become CompTIA Network+ certified. Course design uses the latest texts and other materials over a one or two week period based on client needs. Time is allowed after each Instructor presentation and demonstration for student hands-on work on labs, practice exams and Network+ related drills.

BTS offers On-Site Testing and Test Administration for this course, or students can take the exam at their own leisure at a certified testing center of their choice and schedule.

Master essential data networking skills while preparing for the CompTIA Network+ certification exam (N10-008).

CompTIA's Network+ is the premier vendor-neutral networking certification. Our Network+ Prep Course is designed to provide the foundation you need not only to be productive on the job but also to be successful in more specialized topics and in your pursuit of vendor-specific certifications. 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.

Earning CompTIA's Network+ certification increases your value in the marketplace, providing proof of your knowledge, skills, and ability to manage, maintain, troubleshoot, install, operate, and configure basic network infrastructure. Our Network+ Prep Course points you in the right direction, allowing you to demonstrate the concepts covered on the Network+ exam in a real-world, hands-on environment. You will work through several practice exams to reinforce your knowledge. You will gain essential networking skills in labs that feature a wide variety of networking equipment.



In addition to preparing you for Network+ certification, this course also meets the NEW DoD 8140 training requirements.

Students Will Learn

- **Prepare for the CompTIA Network+ certification exam (N10-007)**
- **Basic network theory concepts**
- **Major communications methods**
- **Network media and hardware components**
- **Components of a TCP/IP network implementation**
- **TCP/IP addressing and data delivery methods**
- **Major services deployed on TCP/IP networks**
- **Components of a LAN implementation**
- **Infrastructure of a WAN implementation**
- **Components of remote network implementation**
- **Major issues and methods to secure systems on a network**
- **Major issues and technologies in network security**
- **Network security threats and attacks**
- **Tools, methods, and techniques used in managing a network**
- **Troubleshoot network issues**
- **And much more...**

Target Audience

- IT personnel willing to pursue a career in cybersecurity.
- Professionals involved in securing network services, devices, and traffic in their organizations.
- Potential students Network Administrators, Cybersecurity Associates, PC Support Analysts, Application Developers, Senior Managers-Accounting/Sales/Product Development/Marketing.
- The ones preparing for the SY0-501 exam for earning the CompTIA Security+ certification or those who wish to use Security+ as the foundation for advanced security certifications and career roles.

Prerequisites

Several months of experience in the IT support industry and A+ certification or similar knowledge is beneficial but not required.

Course Outline

- CompTIA Network+ certification exam (N10-008)
- 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
 - Given a scenario, configure the appropriate IP addressing components.
 - Compare and contrast the characteristics of network topologies, types and technologies.
 - Given a scenario, implement the appropriate wireless technologies and configurations.
 - Summarize cloud concepts and their purposes
 - Explain the functions of network services.
- Infrastructure
 - Given a scenario, deploy the appropriate cabling solution.
 - Given a scenario, determine the appropriate placement of networking devices on a network and install/configure them.
 - Explain the purposes and use cases for advanced networking devices
 - Explain the purposes of virtualization and network storage technologies.
 - Compare and contrast WAN technologies.
- Network Operations
 - Given a scenario, use appropriate documentation and diagrams to manage the network.
 - Compare and contrast business continuity and disaster recovery concepts.
 - Explain common scanning, monitoring and patching processes and summarize their expected outputs.
 - Given a scenario, use remote access methods
 - Identify policies and best practices.
- Network Security
 - Summarize the purposes of physical security devices
 - Explain authentication and access controls
 - Given a scenario, secure a basic wireless network.
 - Summarize common networking attacks
 - Given a scenario, implement network device hardening.
 - Explain common mitigation techniques and their purposes.
- Network Troubleshooting and Tools
 - Explain the network troubleshooting methodology
 - Given a scenario, use the appropriate tool.
 - Given a scenario, troubleshoot common wired connectivity and performance issues.
 - Given a scenario, troubleshoot common wireless connectivity and performance issues.
 - Given a scenario, troubleshoot common network service issues

Delivery Method

Virtual Instructor led with numerous Hands-On labs and exercises. This course will provide official CompTIA Live Exam and Testing Certification. This course is available for On-Site delivery upon request.

Equipment Requirements

(This apply's to our hands-on courses only)

BTS always provides equipment to have a very successful Hands-On course. BTS also encourages all attendees to bring their own equipment to the course. This will provide attendees the opportunity to incorporate their own gear into the labs and gain valuable training using their specific equipment.

Course Length

5 Days