CompTIA Network+

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Course Length: 5 days (virtual)

Course Description:
The CompTIA Network+ certification (Exam N10-007) is an internationally recognized validation of the technical knowledge required of foundation-level IT network practitioners.

This 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.

CompTIA Network+ is accredited by ANSI to show compliance with the ISO 17024 Standard and, as such, undergoes regular reviews and updates to the exam objectives.

Course Objectives:
You will:

- Support operating systems.
- Install and configure PC system unit components and peripheral devices.
- Install, configure, and troubleshoot display and multimedia devices.
- Install, configure, and troubleshoot storage devices.
- Install, configure, and troubleshoot internal system components.
- Install, configure, and maintain operating systems.
- Maintain and troubleshoot Microsoft Windows.
- Explain network infrastructure concepts.
- Configure and troubleshoot network connections.
- Manage users, workstations, and shared resources.
- Implement client virtualization and cloud computing.
- Implement physical security.
- Secure workstations and data.
- Troubleshoot workstation security issues.
- Support and troubleshoot laptops.
- Support and troubleshoot mobile devices.
- Install, configure, and troubleshoot print devices.
- Implement operational procedures.

Prerequisites:
It is recommended for CompTIA Network+ candidates to have the following:

- CompTIA A+ certification or equivalent knowledge, though CompTIA A+ certification is not required.
- Have at least 9 to 12 months of work experience in IT networking.
Course Content

• 1.0 NETWORKING CONCEPTS
  o Explain the purposes and uses of ports and protocols.
  o Explain devices, applications, protocols and services at their appropriate OSI layers.
  o Explain the concepts and characteristics of routing and switching.
  o Given a scenario, configure the appropriate IP addressing components.
  o Compare and contrast the characteristics of network topologies, types and technologies.
  o Given a scenario, implement the appropriate wireless technologies and configurations.
  o Summarize cloud concepts and their purposes.
  o Explain the functions of network services.

• 2.0 INFRASTRUCTURE
  o Given a scenario, deploy the appropriate cabling solution.
  o Given a scenario, determine the appropriate placement of networking devices on a network and install/configure them.
  o Explain the purposes and use cases for advanced networking devices.
  o Explain the purposes of virtualization and network storage technologies.
  o Compare and contrast WAN technologies.

• 3.0 NETWORK OPERATIONS
  o Given a scenario, use appropriate documentation and diagrams to manage the network.
  o Compare and contrast business continuity and disaster recovery concepts.
  o Explain common scanning, monitoring and patching processes and summarize their expected outputs.
  o Given a scenario, use remote access methods.
  o Identify policies and best practices.

• 4.0 NETWORK SECURITY
  o Summarize the purposes of physical security devices.
  o Explain authentication and access controls.
  o Given a scenario, secure a basic wireless network.
  o Summarize common networking attacks.
  o Given a scenario, implement network device hardening.
  o Explain common mitigation techniques and their purposes.

• 5.0 NETWORK TROUBLESHOOTING AND TOOLS
  o Explain the network troubleshooting methodology.
  o Given a scenario, use the appropriate tool.
  o Given a scenario, troubleshoot common wired connectivity and performance issues.
  o Given a scenario, troubleshoot common wireless connectivity and performance issues.
  o Given a scenario, troubleshoot common network service issues.