CompTIA Network+

Overview

The Official CompTIA® Network+® (Exam N10-007) course builds on your existing user-level knowledge and experience with personal computer operating systems and networks to present the fundamental skills and concepts that you will need to use on the job in any type of networking career. It also addresses the content described in the exam objectives for the CompTIA Network+ certification. If you are pursuing a CompTIA technical certification path, obtaining the CompTIA® A+® certification is an excellent first step to take before preparing for the CompTIA Network+ examination.

The Official CompTIA® Network+® (Exam N10-007) course can benefit you in several ways:
- If you are preparing for any type of network-related career, it provides the background
- knowledge and skills you will require to be successful.
- It contains information and procedures that can help you if your job duties include network troubleshooting, installation, or maintenance.
- It can assist you in preparing for the CompTIA Network+ examination (Exam N10-007).

Duration

4 Days (08:30 - 16:00)

Audience Profile

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 (Exam N10-007). A typical student taking the CompTIA® Network+® (Exam N10-007) course should have a minimum of nine months of professional computer support experience as a PC or help desk technician. Networking experience is helpful but not mandatory; A+ certification or equivalent skills and knowledge is helpful but not mandatory.
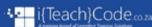
Pre-requisites

To ensure your success in this course, you will need basic Windows end-user computer skills.

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Course Accreditations

Learnfast is a CompTIA Authorized Partner. CompTIA's Authorised Partner Programme works collaboratively with organisations throughout the globe to increase market impact, customer satisfaction and revenue to enhance student career opportunities.

Course Outline

Lesson 1: Network Theory
- Topic A: Network Types
- Topic B: Network Standards and the OSI Model
- Topic C: Data Transmission Methods

Lesson 2: Bounded Network Media
- Topic A: Copper Media
- Topic B: Fiber Optic Media
- Topic C: Bounded Network Media Installation

Lesson 3: Unbounded Network Media.
- Topic A: Wireless Networking
- Topic B: Wireless Network Devices and Components
- Topic C: Implement Wireless Technology
- Topic D: Internet of Things

Lesson 4: Network Implementations
- Topic A: Physical Network Topologies
- Topic B: Logical Network Topologies
- Topic C: Ethernet Networks
- Topic D: Network Devices

Lesson 5: TCP/IP Addressing and Data Delivery
- Topic A: The TCP/IP Protocol Suite
- Topic B: IPv4 Addressing
- Topic C: Default IP Addressing Schemes
- Topic D: Create Custom IP Addressing Schemes
- Topic E: IPv6 Addressing

Lesson 6: Routing and Switching
- Topic A: Switching
- Topic B: Network Packet Routing
- Topic C: Static and Dynamic IP Routing
- Topic D: VLANs

Lesson 7: TCP/IP Implementation
– Topic A: Configure IP Addresses
– Topic B: Naming Services
– Topic C: TCP/IP Utilities
– Topic D: Common TCP/IP Protocols

Lesson 8: Network Security Analysis
– Topic A: Introduction to Network Security
– Topic B: Network Security Policies
– Topic C: Physical Security
– Topic D: Common Network Attacks

Lesson 9: Network Security Implementation
– Topic A: Authentication
– Topic B: Access Control
– Topic C: Port, Service, and Protocol Security
– Topic D: Wireless Network Security
– Topic E: Patches and Updates
– Topic F: Mitigation Techniques

Lesson 10: WAN Infrastructure
– Topic A: WAN Basics
– Topic B: WAN Connectivity Methods
– Topic C: WAN Transmission Technologies
– Topic D: VoIP

Lesson 11: Cloud and Virtualization Techniques
– Topic A: Virtualization Technologies
– Topic B: Network Storage Technologies
– Topic C: Cloud Computing

Lesson 12: Remote Networking
– Topic A: Remote Network Architectures
– Topic B: Remote Access Network Implementations
– Topic C: Virtual Private Networking

Lesson 13: Network Management
– Topic A: Monitor Networks
– Topic B: Document the Network
– Topic C: Establish Baselines
– Topic D: Optimize Network Performance
– Topic E: Ensure Business Continuity

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Lesson 14: Troubleshooting Network Issues
- Topic A: Network Troubleshooting Methodology
- Topic B: Network Troubleshooting Tools
- Topic C: Troubleshoot Wired Connectivity and Performance Issues
- Topic D: Troubleshoot Wireless Connectivity and Performance Issues
- Topic E: Troubleshoot Network Service Issues