CompTIA Network+ Certification

Overview
This 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+ N10-007 examination.

Prerequisites
- CompTIA A+ Certification
- Using Microsoft Windows 10

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

In order to obtain the Network+ certification students must pass the CompTIA® Network+® (Exam N10-007).

Target Audience
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.

Course Objectives
In this course, you will describe the major networking technologies and systems of modern networks, and configure, manage, and troubleshoot

Register Online

Schedule
Class Length: 5 Days

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G2R = “Guaranteed to Run” | OLL = “Online LIVE”
ILT = “Instructor-Led-Training”
modern networks.
You will:
- Identify basic network theory concepts and major network communications methods.
- Describe bounded network media.
- Describe unbounded network media.
- Identify the major types of network implementations.
- Identify TCP/IP addressing and data delivery methods.
- Analyze routing and switching technologies.
- Identify the components of a TCP/IP implementation.
- Analyze network security.
- Implement network security.
- Identify the components of a WAN implementation.
- Identify the components used in cloud computing and virtualization.
- Identify the components of a remote network implementation.
- Manage networks.
- Troubleshoot network issues.

Course Outline

1 - Network Theory

Network Types
Network Standards and the OSI Model
Data Transmission Methods

2 - Bounded Network Media

Copper Media
Fiber Optic Media
Bounded Network Media Installation

3 - Unbounded Network Media

Wireless Networking
Wireless Network Devices and Components
Implement Wireless Technology
Internet of Things

4 - Network Implementations

Physical Network Topologies
Logical Network Topologies
Ethernet Networks
Network Devices
5 - TCP/IP Addressing and Data Delivery

The TCP/IP Protocol Suite
IPv4 Addressing
Default IP Addressing Schemes
Create Custom IP Addressing Schemes
IPv6 Addressing

6 - Routing and Switching

Switching
Network Packet Routing
Static and Dynamic IP Routing
VLANs

7 - TCP/IP Implementation

Configure IP Addresses
Naming Services
TCP/IP Utilities
Common TCP/IP Protocols

8 - Network Security Analysis

Introduction to Network Security
Network Security Policies
Physical Security
Common Network Attacks

9 - Network Security Implementation

Authentication
Access Control
Port, Service, and Protocol Security
Wireless Network Security
Patches and Updates
Mitigation Techniques

10 - WAN Infrastructure

WAN Basics
WAN Connectivity Methods
WAN Transmission Technologies
VoIP
11 - Cloud and Virtualization Techniques

Virtualization Technologies
Network Storage Technologies
Cloud Computing

12 - Remote Networking

Remote Network Architectures
Remote Access Networking Implementations
Virtual Private Networking

13 - Network Management

Monitor Networks
Document the Network
Establish Baselines
Optimize Network Performance
Ensure Business Continuity

14 - Troubleshooting Network Issues

Network Troubleshooting Methodology
Network Troubleshooting Tools
Troubleshoot Wired Connectivity and Performance Issues
Troubleshoot Wireless Connectivity and Performance Issues
Troubleshoot Network Service Issues

Related Courses, Certifications, Exams

- CompTIA A+ Certification (Exams 220-901 and 220-902)
- Using Microsoft Windows 10
- CompTIA Security+ Certification 2018
- CompTIA A+ Certification (Exams 220-901 and 220-902)
- CompTIA Network+
- N10-007 - CompTIA Network+