



COMPLETE COMPUTING, INC.

CompTIA® Network+® (Exam N10-005)

Course length: 5 day(s)

Course Description

The *CompTIA® Network+® (Exam N10-005)* 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. If you are pursuing a CompTIA technical certification path, the CompTIA A+ certification is an excellent first step to take before preparing for the CompTIA Network+ certification.

The *CompTIA® Network+® (Exam N10-005)* course can benefit you in two ways. It can assist you if you are preparing to take the CompTIA® Network+® examination (Exam N10-005). Also, if your job duties include network troubleshooting, installation, or maintenance, or if you are preparing for any type of network-related career, it provides the background knowledge and skills you will require to be successful.

Target Student

This course is intended for entry-level computer support professionals with a basic knowledge of computer hardware, software, and operating systems to prepare for the CompTIA® Network+® (Exam N10-005), or 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. A typical student taking the *CompTIA® Network+® (Exam N10-005)* course should have a minimum of nine months or more 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.

Prerequisites

To ensure your success, you will need basic Windows end-user computer skills. To meet this prerequisite, you can take any one or more of the following LogicalCHOICE courses, or have equivalent experience:

- Using Microsoft® Windows® 8
- Microsoft® Windows® 8 Transition from Windows® 7

In addition, we highly recommend that you hold the CompTIA A+ certification, or have equivalent skills and knowledge.



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Course Content

Lesson 1: Network Theory

- Topic A:** Networking Terminology
- Topic B:** Network Categories
- Topic C:** Standard Network Models
- Topic D:** Physical Network Topologies
- Topic E:** Logical Network Topologies

Lesson 2: Network Communications Methods

- Topic A:** Data Transmission Methods
- Topic B:** Media Access Methods
- Topic C:** Signaling Methods

Lesson 3: Network Media and Hardware

- Topic A:** Bounded Network Media
- Topic B:** Unbounded Network Media
- Topic C:** Noise Control
- Topic D:** Network Connectivity Devices

Lesson 4: Network Implementations

- Topic A:** Ethernet Networks
- Topic B:** Wireless Networks

Lesson 5: Networking Models

- Topic A:** The OSI Model
- Topic B:** The TCP/IP Model

Lesson 6: TCP/IP Addressing and Data Delivery

- Topic A:** The TCP/IP Protocol Suite
- Topic B:** IP Addressing
- Topic C:** Default IP Addressing Schemes
- Topic D:** Create Custom IP Addressing Schemes
- Topic E:** Implement IPv6 Addresses
- Topic F:** Delivery Techniques

Lesson 7: TCP/IP Services

- Topic A:** Assign IP Addresses
- Topic B:** Domain Naming Services
- Topic C:** TCP/IP Commands
- Topic D:** Common TCP/IP Protocols
- Topic E:** TCP/IP Interoperability Services

Lesson 8: LAN Infrastructure

- Topic A:** Switching
- Topic B:** Enable Static Routing
- Topic C:** Implement Dynamic IP Routing
- Topic D:** Virtual LANs
- Topic E:** Plan a SOHO Network

Lesson 9: WAN Infrastructure

- Topic A:** WAN Transmission Technologies
- Topic B:** WAN Connectivity Methods
- Topic C:** Voice over Data Transmission

Lesson 10: Remote Networking

- Topic A:** Remote Network Architectures
- Topic B:** Remote Access Networking Implementations
- Topic C:** Virtual Private Networking

Lesson 11: System Security

- Topic A:** Computer Security Basics
- Topic B:** System Security Tools
- Topic C:** Authentication Methods
- Topic D:** Encryption Methods

Lesson 12: Network Security

- Topic A:** Network Perimeter Security
- Topic B:** Intrusion Detection and Prevention
- Topic C:** Protect Network Traffic Using IPSec

Lesson 13: Network Security Threats and Attacks

- Topic A:** Network-Based Security Threats and Attacks
- Topic B:** Apply Threat Mitigation Techniques
- Topic C:** Educate Users

Lesson 14: Network Management

- Topic A:** Network Monitoring
- Topic B:** Configuration Management Documentation
- Topic C:** Network Performance Optimization

Lesson 15: Network Troubleshooting

- Topic A:** Network Troubleshooting Models
- Topic B:** Network Troubleshooting Utilities
- Topic C:** Hardware Troubleshooting Tools
- Topic D:** Common Connectivity Issues

Appendix A: CompTIA® Network+® (Exam N10-005) Objectives Mapping

Appendix B: CompTIA Network+ Acronyms

Appendix C: Network Fault Tolerance Methods

Appendix D: Disaster Recovery Planning