

## **CompTIA Network+ (Exam N10-007) (ComptiaNet) (Flex)**

**Modality:** Virtual Classroom

**Duration:** 20 Days (2 hrs/day)

***“If you enroll in this course without the Master Subscription plan, you receive a Free Official Exam Voucher (excluding purchases using Training Vouchers / SATV) for N10-007 Exam. This course does not include Exam Voucher if enrolled within the Master Subscription, however, you can request to purchase the Official Exam Voucher separately.”***

### **About the Course:**

With the passage of time, data networks have become more and more critical and their significance have grown over the years. Those healthcare, financial, and information services which are highly confidential in nature are given a lifeline using data networks. By obtaining a CompTIA Network+ certification, you will be able to configure, troubleshoot and manage systems in order to keep your organization or the organization you work for, productive.

The course has been designed to provide the students with the knowledge as well as key skills needed for maintaining, installing, managing, operation, configuring, and troubleshooting basic network infrastructure, explain basic design principles along with networking technologies, use testing tools, and adhere to wiring standards. If you wish to begin your network career, then this the first step, right here! The certification is recognized by different vendors like Novell, Microsoft, Red Hat, and Cisco within their certification tracks.

If you plan to take and clear the CompTIA Network+ (Exam N10-007) exam, then this course will help you in preparing for it. However, having only a certification is not going to cut it for the competitive job market of today, you need to exhibit exceptional skills as well. This course will help you in developing the right skills set, especially when it comes to security, so that all duties can be performed diligently.

An IT Network Specialist can earn up to **\$92,000/-** on average, per annum.

### **Course Objectives:**

Once the course is complete, the candidate will be able to

- Explain what bounded networking media is
- Identify major network communication methods along with basic network theory concepts.
- Explain what unbounded network media is
- Identify TCP/IP data delivery and addressing methods
- Analyze switching and routing technologies

- Identity the major kinds of network deployments
- Identify TCP/IP deployment components
- Deploy network security
- Analyze network security
- Identify virtualization and cloud computing components
- Identity WAN deployment components
- Identify remote network deployment components
- Troubleshoot network issues
- Manage networks

## **Audience:**

The course is intended to be undertaken by computer support professionals who may be either looking for or occupying entry level positions, having a basic knowledge of computer software, hardware, and operating systems. It is also intended to be opted for by those who wish to take the CompTIA® Network+® (Exam N10-005). Additionally, anybody who wants to enhance their understanding and knowledge of networking concepts while gaining the skills needed to excel in network support career or administration career, then this course is a must for them.

The candidate opting for this course must have at least 9 months of computer support experience as a help desk or PC technician. Having prior experience in networking or A+ certification will become a huge advantage, but it is not mandatory for the candidate to have these before enrolling in this course.

## **Prerequisites:**

In order to be successful and clear the exam associated with this course, you must have basic knowledge and skills of using Windows end-user computer. In order to meet this requirements, you can choose from any one of the Element K courses mentioned below:

- Windows XP Professional: An Introduction
- Introduction to Personal Computers: Using Windows XP
- Microsoft® Windows® 7: Level 1
- Microsoft® Windows® 7: Level 2
- Introduction to Personal Computers: Using Windows 7

- Recommended to pass CompTIA A+ certification A Comprehensive Approach (Exams 220-901 and 220-902), or equivalent knowledge, with 6 - 9 months experience in networking.

## **Suggested Prerequisite Courses:**

CompTIA A+ Certification: A Comprehensive Approach (Exams 220-901 and 220-902) (Comptia-A)

## **Course Outline:**

### **Lesson 1: Network Theory**

Topic 1A: Networking Terminology

Topic 1B: Network Categories

Topic 1C: Standard Network Models

Topic 1D: Physical Network Topologies

Topic 1E: Logical Network Topologies

### **Lesson 2: Network Communications Methods**

Topic 2A: Data Transmission Methods

Topic 2B: Media Access Methods

Topic 2C: Signaling Methods

### **Lesson 3: Network Media and Hardware**

Topic 3A: Bounded Network Media

Topic 3B: Unbounded Network Media

Topic 3C: Noise Control

Topic 3D: Network Connectivity Devices

### **Lesson 4: Network Implementations**

Topic 4A: Ethernet Networks

Topic 4B: Wireless Networks

### **Lesson 5: Networking Models**

Topic 5A: The OSI Model

Topic 5B: The TCP/IP Model

### **Lesson 6: TCP/IP Addressing and Data Delivery**

Topic 6A: The TCP/IP Protocol Suite

Topic 6B: IP Addressing

Topic 6C: Default IP Addressing Schemes

Topic 6D: Create Custom IP Addressing Schemes

Topic 6E: Implement IPv6 Addresses

Topic 6F: Delivery Techniques

## **Lesson 7: TCP/IP Services**

Topic 7A: Assign IP Addresses

Topic 7B: Domain Naming Services

Topic 7C: TCP/IP Commands

Topic 7D: Common TCP/IP Protocols

Topic 7E: TCP/IP Interoperability Services

## **Lesson 8: LAN Infrastructure**

Topic 8A: Switching

Topic 8B: Enable Static Routing

Topic 8C: Implement Dynamic IP Routing

Topic 8D: Virtual LANs

Topic 8E: Plan a SOHO Network

## **Lesson 9: WAN Infrastructure**

Topic 9A: WAN Transmission Technologies

Topic 9B: WAN Connectivity Methods

Topic 9C: Voice over Data Transmission

## **Lesson 10: Remote Networking**

Topic 10A: Remote Network Architectures

Topic 10B: Remote Access Networking Implementations

Topic 10C: Virtual Private Networking

Topic 10D: VPN Protocols

## **Lesson 11: System Security**

Topic 11A: Computer Security Basics

Topic 11B: System Security Tools

Topic 11C: Authentication Methods

Topic 11D: Encryption Methods

## **Lesson 12: Network Security**

Topic 12A: Network Perimeter Security

Topic 12B: Intrusion Detection and Prevention

Topic 12C: Protect Network Traffic Using IPSec

## **Lesson 13: Network Security Threats and Attacks**

Topic 13A: Network-Based Security Threats and Attacks

Topic 13B: Apply Threat Mitigation Techniques

Topic 13C: Educate Users

## **Lesson 14: Network Management**

Topic 14A: Network Monitoring

Topic 14B: Configuration Management Documentation

Topic 14C: Network Performance Optimization

## **Lesson 15: Network Troubleshooting**

Topic 15A: Network Troubleshooting Models

Topic 15B: Network Troubleshooting Utilities

Topic 15C: Hardware Troubleshooting Tools

Topic 15D: Common Connectivity Issues

Appendix A: Mapping Network+ Course Content to the CompTIA Network+ Exam Objectives

Appendix B: CompTIA Network+ Acronyms

Appendix C: Network Fault Tolerance Methods

Appendix D: Disaster Recovery Planning

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