CompTIA Network+ (Exam N10-008) (ComptiaNet)

Modality: Virtual Classroom

Duration: 5 Days

"If you enroll in this course without the Master Subscription plan, you receive a Free Official Exam Voucher for N10-008 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 N10-008) 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 N10-008). 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:

Regardless of whether you have passed A+, it is recommended that you have the following skills and knowledge before starting this course:

- Configure and support PC, laptop, mobile (smartphone / tablet), and print devices.
- Know basic network terminology and functions (such as Ethernet, TCP/IP, switches, routers).
- Configure and manage users, groups, and shared resources in a simple SOHO network.
- Understand the use of basic access control measures, such as authentication, security policy, encryption, and firewalls.
- Understand TCP/IP addressing, core protocols and troubleshooting tools.

Course Outline:

Lesson 1: Comparing OSI Model Network Functions

- Topic 1A: Compare and Contrast OSI Model Layers
- Topic 1B: Configure SOHO Networks

Lesson 2: Deploying Ethernet Cabling

- Topic 2A: Summarize Ethernet Standard
- Topic 2B: Summarize Copper Cabling Types
- Topic 2C: Summarize Fiber Optic Cabling Types
- Topic 2D: Deploy Ethernet Cabling

Lesson 3: Deploying Ethernet Switching

- Topic 3A: Deploy Networking Devices
- Topic 3B: Explain Network Interfaces
- Topic 3C: Deploy Common Ethernet Switching Features

Lesson 4: Troubleshooting Ethernet Networks

- Topic 4A: Explain Network Troubleshooting Methodology
- Topic 4B: Troubleshoot Common Cable Connectivity Issues

Lesson 5: Explaining IPv4 Addressing

- Topic 5A: Explain IPv4 Addressing Schemes
- Topic 5B: Explain IPv4 Forwarding
- Topic 5C: Configure IP Networks and Subnets

Lesson 6: Supporting IPv4 and IPv6 Networks

- Topic 6A: Use Appropriate Tools to Test IP Configuration
- Topic 6B: Troubleshoot IP Networks
- Topic 6C: Explain IPv6 Addressing Schemes

Lesson 7: Configuring and Troubleshooting Routers

- Topic 7A: Compare and Contrast Routing Concepts
- Topic 7B: Compare and Contrast Dynamic Routing Concepts
- Topic 7C: Install and Troubleshoot Routers

Lesson 8: Explaining Network Topologies and Types

- Topic 8A: Explain Network Types and Characteristics
- Topic 8B: Explain Tiered Switching Architecture
- Topic 8C: Explain Virtual LANs 200

Lesson 9: Explaining Transport Layer Protocols

- Topic 9A: Compare and Contrast Transport Protocols

- Topic 9B: Use Appropriate Tools to Scan Network Ports

Lesson 10: Explaining Network Services

- Topic 10A: Explain the Use of Network Addressing Services
- Topic 10B: Explain the Use of Name Resolution Services
- Topic 10C: Configure DNS Services

Lesson 11: Explaining Network Applications

- Topic 11A: Explain the Use of Web, File/Print, and Database Services
- Topic 11B: Explain the Use of Email and Voice Services

Lesson 12: Ensuring Network Availability

- Topic 12A: Explain the Use of Network Management Services
- Topic 12B: Use Event Management to Ensure Network Availability
- Topic 12C: Use Performance Metrics to Ensure Network Availability

Lesson 13: Explaining Common Security Concepts

- Topic 13A: Explain Common Security Concepts
- Topic 13B: Explain Authentication Methods

Lesson 14: Supporting and Troubleshooting Secure Networks

- Topic 14A: Compare and Contrast Security Appliances
- Topic 14B: Troubleshoot Service and Security Issues

Lesson 15: Deploying and Troubleshooting Wireless Networks

- Topic 15A: Summarize Wireless Standards
- Topic 15B: Install Wireless Networks
- Topic 15C: Troubleshoot Wireless Networks
- Topic 15D: Configure and Troubleshoot Wireless Security

Lesson 16: Comparing WAN Links and Remote Access Methods

- Topic 16A: Explain WAN Provider Links
- Topic 16B: Compare and Contrast Remote Access Methods

Lesson 17: Explaining Organizational and Physical Security Concepts

- Topic 17A: Explain Organizational Documentation and Policies
- Topic 17B: Explain Physical Security Methods
- Topic 17C: Compare and Contrast Internet of Things Devices

Lesson 18: Explaining Disaster Recovery and High Availability Concepts

- Topic 18A: Explain Disaster Recovery Concepts
- Topic 18B: Explain High Availability Concepts

Lesson 19: Applying Network Hardening Techniques

- Topic 19A: Compare and Contrast Types of Attacks
- Topic 19B: Apply Network Hardening Techniques

Lesson 20: Summarizing Cloud and Datacenter Architecture

- Topic 20A: Summarize Cloud Concepts
- Topic 20B: Explain Virtualization and Storage Area Network Technologies
- Topic 20C: Explain Datacenter Network Architecture