ProTech Professional Technical Services, Inc.



The Official CompTIA Network+ (Exam N10-008)

Course Summary

Description

The Official CompTIA Network+ Instructor and Student Guides (N10-008) have been developed by CompTIA for the CompTIA Network+ candidate. Rigorously evaluated to validate coverage of the CompTIA Network+ (N10-008) exam objectives, The Official CompTIA Network+ Instructor and Student Guides teach the knowledge and skills to deploy, secure, and troubleshoot SOHO and enterprise networks, and to prepare candidates to take the CompTIA Network+ certification exam.

Objectives

Successful candidates will have the knowledge required to:

- Explain routing technologies and networking devices; deploy ethernet solutions and configure wireless technologies.
- · Monitor and optimize networks to ensure business continuity.
- Explain security concepts and network attacks in order to harden networks against threats.
- Troubleshoot common cable, connectivity, and software issues related to networking.

Topics

- Comparing OSI Model Network Functions
- · Deploying Ethernet Cabling
- Deploying Ethernet Switching
- Troubleshooting Ethernet Networks
- Explaining IPv4 Addressing
- Supporting IPv4 and IPv6 Networks
- Configuring and Troubleshooting Routers
- Explaining Network Topologies and Types
- Explaining Transport Layer Protocols
- Explaining Network Services
- Explaining Network Applications
- Ensuring Network Availability
- Explaining Common Security Concepts

- Supporting and Troubleshooting Secure Networks
- Deploying and Troubleshooting Wireless Networks
- Comparing WAN Links and Remote Access Methods
- Explaining Organizational and Physical Security Concepts
- Explaining Disaster Recovery and High Availability Concepts
- Applying Network Hardening Techniques
- Summarizing Cloud and Datacenter Architecture

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.

Prerequisites

To ensure your success in this course, you will need basic Windows end-user computer skills. To meet this prerequisite, you can take the Using Microsoft Windows 10 course, or you should have equivalent experience.

Duration

Five days

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Course Outline

Comparing OSI Model Network Functions
 A.Compare and Contrast OSI Model Layers

B.Configure SOHO Networks

II. Deploying Ethernet Cabling

A. Summarize Ethernet Standards

B. Summarize Copper Cabling Types

- C. Summarize Fiber Optic Cabling Types
- D. Deploy Ethernet Cabling

III. Deploying Ethernet Switching

A. Deploy Networking Devices

- **B.** Explain Network Interfaces
- C. Deploy Common Ethernet Switching Features

IV. Troubleshooting Ethernet Networks

- A. Explain Network Troubleshooting Methodology
- B.Troubleshoot Common Cable Connectivity Issues

V. Explaining IPv4 Addressing

A. Explain IPv4 Addressing Schemes

- B. Explain IPv4 Forwarding
- C. Configure IP Networks and Subnets

VI. Supporting IPv4 and IPv6 Networks

A. Use Appropriate Tools to Test IP Configuration

- B.Troubleshoot IP Networks
- C. Explain IPv6 Addressing Schemes

VII. Configuring and Troubleshooting Routers

A.Compare and Contrast Routing Concepts

- B. Compare and Contrast Dynamic Routing Concepts
- C. Install and Troubleshoot Routers

VIII. Explaining Network Topologies and Types

A. Explain Network Types and Characteristics

- **B.** Explain Tiered Switching Architecture
- C. Explain Virtual LANs

IX. Explaining Transport Layer Protocols

A. Compare and Contrast Transport Protocols B. Use Appropriate Tools to Scan Network Ports

X. Explaining Network Services

A. Explain the Use of Network Addressing Services

- B. Explain the Use of Name Resolution Services
- C. Configure DNS Services

XI. Explaining Network Applications

A. Explain the Use of Web, File/Print, and Databases Services

B. Explain the Use of Email and Voice Services

XII. Ensuring Network Availability

A. Explain the Use of Network Management Services

B.Use Event Management to Ensure Network Availability

C. Use Performance Metrics to Ensure Network Availability

XIII. Explaining Common Security Concepts

A. Explain Common Security Concepts B. Explain Authentication Methods

XIV. Supporting and Troubleshooting Secure Networks

A.Compare and Contrast Security Appliances B.Troubleshoot Service and Security Issues

XV. Deploying and Troubleshooting Wireless

Networks

A. Summarize Wireless Standards

- B.Install Wireless Networks
- C. Troubleshoot Wireless Networks
- D. Configure and Troubleshoot Wireless Security

XVI. Comparing WAN Links and Remote Access Methods

- A. Explain WAN Provider Links
- B.Compare and Contrast Remote Access Methods

XVII. Explaining Organizational and Physical Security
Concepts

- A. Explain Organizational Documentation and Policies
- **B.** Explain Physical Security Methods
- C. Compare and Contrast Internet of Things Devices

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Course Outline (cont)

XVIII. Explaining Disaster Recovery and High Availability Concepts

A. Explain Disaster Recovery Concepts B. Explain High Availability Concepts

XIX. Applying Network Hardening Techniques

A.Compare and Contrast Types of Attacks B.Apply Network Hardening Techniques

XX. Summarizing Cloud and Datacenter Architecture

A. Summarize Cloud Concepts

B. Explain Virtualization and Storage Area Network Technologies

C. Explain Datacenter Network Architecture