CompTIA Network+ Certification (Exam N10-008)

Class Length

5 Days

Overview

Each of the bulleted activities below is a separate study task within the CertMaster Learn learning plan. Students are encouraged to complete a certain number   of tasks in each login session based on their desired course completion date. Review Activities are embedded within the eBook. Videos and Practice Questions are found in the CompTIA Learning Center, the platform through which the eBook is delivered. Labs are available at the course level or integrated as study   tasks within CertMaster Learn.

Prerequisite Comments

CompTIA A+ and/or a minimum of 9 months networking experience recommended.

Target Audience

This course is suitable to students with roles as
Network Field Technician/Engineer
Network Administrator
Help Desk Technician
Network Support Specialist
Network Analyst

Course Objectives

At course completion, students will be knowledgeable in:
Comparing OSI Model Network Functions
Deploying Ethernet Cabling
Deploying Ethernet Switching
Troubleshooting Ethernet Networks
Explaining IPv4 Addressing
Supporting IPv4 and IPv6 Networks

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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

Course Outline

1 - Comparing OSI Model Network Functions

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

2 - Deploying Ethernet Cabling

Topic 2A: Summarize Ethernet Standards
Topic 2B: Summarize Copper Cabling Types
Topic 2C: Summarize Fiber Optic Cabling Types

3 - Deploying Ethernet Switching

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

4 - Troubleshooting Ethernet Networks

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

5 - Explaining IPv4 Addressing

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

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

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

8 - Explaining Network Topologies and Types

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

9 - Explaining Transport Layer Protocols

    Topic 9A: Compare and Contrast Transport Protocols
    Topic 9B: Use Appropriate Tools to Scan Network Ports

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

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

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

13 - Explaining Common Security Concepts

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

14 - Supporting and Troubleshooting Secure Networks

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

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

16 - Comparing WAN Links and Remote Access Methods

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

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

18 - Explaining Disaster Recovery and High Availability Concepts

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

19 - Applying Network Hardening Techniques

Topic 19A: Applying Network Hardening Techniques
Topic 19B: Apply Network Hardening Techniques

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