对 New Horizons®

CompTIA Network+ Certification (Exam N10-008)

Summary

Length: 40 hours Level: Experienced

CompTIA Network+ validates the technical skills needed to securely establish, maintain and troubleshoot the essential networks that businesses rely on. Unlike other vendor-specific networking certifications, CompTIA Network+ prepares candidates to support networks on any platform. CompTIA Network+ is the only certification that covers the specific skills that network professionals need. Other certifications are so broad, they don't cover the hands-on skills and precise knowledge needed in today's networking environments. This course will prepare you to take the CompTIA Network+ certification exam. This course may earn a Credly Badge.

Learning 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 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

Audience

This course is suitable for those with roles such as Network Field Technician/Engineer, Network Administrator, Help Desk Technician, Network Support Specialist, and Network Analyst.

Prerequisites

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