CompTIA Network+ Certification (N10-009)

Duration: *5 Day(s)*

Course Overview

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. CompTIA Network+ is the first certification IT professionals specializing in network administration and support should earn. Network+ is aimed at IT professionals with job roles such as network administrator, network technician, network installer, help desk technician, and IT cable installer.

Review this course online at https://www.alta3.com/courses/NET+009

Objectives

- Understand core networking concepts and protocols.
- Implement and manage network security measures.
- Troubleshoot and resolve network connectivity issues.
- Configure and maintain network devices and services.

Who Should Attend

- Junior Network Administrator
- NOC Technician
- Systems Administrator
- Datacenter Support Technician
- Telecommunications Technician

Prerequisites

Recommended certification exam experience: A minimum of 9–12 months of experience in the IT networking field.

Course Outline

Lesson 1: Explaining Network Topologies

1. Understanding physical and logical topologies
2. Evaluating network scalability and performance

Lesson 2: Supporting Cabling and Physical Installations

3. Identifying types of network cables and connectors
4. Implementing structured cabling systems

Lesson 3: Configuring Interfaces and Switches

5. Performing basic switch configuration

6. Managing VLANs and trunking

Lesson 4: Configuring Network Addressing

7. Understanding IP addressing and subnetting
8. Implementing DHCP and addressing schemes

Lesson 5: Configuring Routing and Advanced Switching

9. Configuring static and dynamic routing
10. Implementing Layer 3 switching

Lesson 6: Implementing Network Services

11. Managing DNS and DHCP services
12. Implementing NAT and PAT

Lesson 7: Explaining Application Services

13. Understanding HTTP/HTTPS protocols
14. Managing email and FTP services

Lesson 8: Supporting Network Management

15. Utilizing network monitoring tools
16. Developing network documentation

Lesson 9: Explaining Network Security Concepts

17. Identifying security threats and vulnerabilities
18. Understanding firewall and VPN technologies

Lesson 10: Applying Network Security Features

19. Implementing ACLs and security measures
20. Configuring network authentication protocols

Lesson 11: Supporting Network Security Design

21. Designing secure network topologies
22. Implementing best security practices

Lesson 12: Configuring Wireless Networks

23. Setting up wireless access points
24. Managing wireless security protocols

Lesson 13: Comparing Remote Access Methods

25. Evaluating VPN and remote desktop solutions
26. Implementing secure remote connectivity

Lesson 14: Summarizing Cloud Concepts

27. Understanding cloud services and models
28. Implementing hybrid and cloud network strategies

A.0 Network Sandbox

29. Practicing skills in a controlled environment