

CompTIA Network+ Certification (Exam N10-009)

Course Specifications

Course Number: BIR84-042_rev1.0

Course Length: 5 days

Course Description

Welcome to CompTIA Network+ Certification, Exam N10-009. This course provides the basic knowledge needed to plan, install, maintain, and troubleshoot modern networks in a vendor-neutral format; this includes physical network components and technologies, logical structures, common protocols, and network security. This course maps to the CompTIA Network+ N10-009 certification exam.

You will benefit most from this course if you intend to take the CompTIA Network+ exam.

This course assumes that you have basic knowledge of using and maintaining individual workstations. Knowledge equivalent to the CompTIA A+ certification is helpful but not necessary.

Course Content

Chapter 1: Fundamentals

Module A: Networking concepts

Module B: Network models

Module C: The troubleshooting process

Chapter 2: Lan Technologies

Module A: Connection technologies

Module B: Network devices

Chapter 3: Physical Connections

Module A: Copper media

Module B: Optical media

Module C: LAN standards

Chapter 4: Ip Addressing

Module A: IP addresses

Module B: Address resolution and assignment

Chapter 5: TCP/IP Protocols

Module A: Core protocols

Module B: Network ports and applications

Chapter 6: Internetworking

Module A: Switching

Module B: Routing

Module C: Network architecture

Chapter 7: Wireless Networks

Module A: Wireless network infrastructure

Module B: Wireless LAN standards

Chapter 8: Cybersecurity Principles

Module A: Security goals

Module B: Network attacks

Module C: Security controls

Chapter 9: Secure Connectivity

Module A: Secure protocols

Module B: Remote access

Module C: Network authentication systems

Chapter 10: Defending Networks

Module A: Network security components

Module B: Hardening networks

Chapter 11: Modern Network Environments

Module A: Network convergence

Module B: Evolving network technologies

Module C: Virtual and cloud systems

Chapter 12: Network Operations

Module A: Monitoring and optimization

Module B: Fault tolerance and disaster recovery

Chapter 13: Network Planning

Module A: Network installation

Module B: Maintenance and upgrades

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