# CompTIA Network+
# (Exam N10 – 009)

**Days:** 5

**Prerequisites:** 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.

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

**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 Objectives:** In this course, you will describe the major networking technologies and systems of modern networks, and be able to configure, manage, and troubleshoot modern networks.

## OUTLINE:

### 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

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## CHAPTER 13: NETWORK PLANNING
Module A: Network installation
Module B: Maintenance and upgrades

## INDEX