



CompTIA Network Plus

Certification Courses **CompTIA**

Course Length: 5 days

Course Delivery: Traditional Classroom • Online Live

Overview and Audience

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 (Exam N10-006). A typical student taking the CompTIA® Network+® (Exam N10-006) course should have a minimum of nine months of professional computer support experience as a PC or help desk technician. Networking experience is helpful but not mandatory; A+ certification or equivalent skills and knowledge is helpful but not mandatory.

The CompTIA Network+ certification can be a stepping stone for vendor-specific certifications, such as Cisco CCNA and Microsoft MCSA. CompTIA Network+ is an international, vendor-neutral certification that proves a technician's competency in managing, maintaining, troubleshooting, installing, and configuring basic network infrastructure. Since its introduction in 1999, more than 235,000 people have become CompTIA Network+ certified.

Prerequisites

A+ Certification or equivalent skills and knowledge

After completing this course, students will be able to:

- Identify basic network theory concepts and major network communications methods. Describe bounded network media.
- Identify unbounded network media.
- Identify the major types of network implementations.
- Identify TCP/IP addressing and data delivery methods.
- Implement routing technologies.
- Identify the major services deployed on TCP/IP networks.
- Identify the infrastructure of a WAN implementation.
- Identify the components used in cloud computing and virtualization.
- Describe basic concepts related to network security.
- Prevent security breaches.
- Respond to security incidents.
- Identify the components of a remote network implementation.



- Identify the tools, methods, and techniques used in managing a network.
- Describe troubleshooting of issues on a network.

Course Outline

1 - NETWORK THEORY

Networking Overview Network Standards and the OSI Model Network Types Identify Network Configurations Data Transmission Methods

2 - BOUNDED NETWORK MEDIA

Copper Media Fiber Optic Media Bounded Network Media Installation Noise Control

3 - UNBOUNDED NETWORK MEDIA

Wireless Networking Wireless Network Devices and Components Install a Wireless Network

4 - NETWORK IMPLEMENTATIONS

Physical Network Topologies Logical Network Topologies Ethernet Networks Network Devices VLANs

5 - TCP/IP ADDRESSING AND DATA DELIVERY

The TCP/IP Protocol Suite IPv4 Addressing Default IP Addressing Schemes Create Custom IP Addressing Schemes IPv6 Address Implementation Delivery Techniques

6 - ROUTING

Enable Static Routing Implement Dynamic IP Routing

7 - TCP/IP SERVICES

Assign IP Addresses Domain Naming Services TCP/IP Commands Common TCP/IP Protocols

8 - WAN INFRASTRUCTURE

WAN Basics WAN Connectivity Methods WAN Transmission Technologies Unified Communication Technologies



9 - CLOUD AND VIRTUALIZATION TECHNOLOGIES

Virtualization SAN Implementations Cloud Computing

10 - NETWORK SECURITY BASICS

Introduction to Network Security Vulnerabilities Threats and Attacks Authentication Methods
Encryption Methods

11 - PREVENTING SECURITY BREACHES

Physical Security Controls Network Access Controls Install and Configure Firewalls Harden
Networks Intrusion Detection and Prevention Educate Users

12 - RESPONDING TO SECURITY INCIDENTS

Incident Management and Response Basic Forensic Concepts

13 - REMOTE NETWORKING

Remote Network Architectures Remote Access Networking Implementations Virtual Private
Networking VPN Protocols

14 - NETWORK MANAGEMENT

Network Monitoring Configuration Management Documentation Network Performance
Optimization

15 - TROUBLESHOOTING NETWORK ISSUES

Network Troubleshooting Models Network Troubleshooting Utilities Hardware Troubleshooting
Tools Common Connectivity Issues Troubleshoot Security Configuration Issues Troubleshoot
Security Issues

16 - APPENDIX

Appendix A: Mapping Course Content to the CompTIA Network+ Exam Appendix B: Network
Fault Tolerance and Disaster Recovery Appendix C: Planning and Implementing a SOHO Network
Appendix D: Legend for Icons Used in Network+ Figures

To register or for more information call
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