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Learning Solutions



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CompTIA® Network+® Certification: A Comprehensive Approach for All 2009 Exam Objectives

Certification Exams N10-005

Hours: 40, Tuition: \$1695

Course Objective:

You will identify and describe all the major networking technologies, systems, skills, and tools in use in modern PC-based computer networks, and learn information and skills that will be helpful as you prepare for the CompTIA Network+ certification examination, 2009 objectives (exam number N10-005).

Target Student:

This course is intended for entry-level computer support professionals with basic knowledge of computer hardware, software, and operating systems, who wish to increase their knowledge and understanding of networking concepts and skills to prepare for a career in network support or administration, or to prepare for the CompTIA Network+® (2009 Objectives) exam (exam number N10-005). A typical student in the CompTIA Network+® (2009 Objectives) course should have nine months or more of professional computer support experience as a PC technician or help desk technician. Network experience is helpful but not required; A+ certification or the equivalent skills and knowledge is helpful but not required.

Prerequisites:

Basic Windows skills and a fundamental understanding of computer concepts are required.

Certification Exam

The latest version of CompTIA Network+ is CompTIA Network+ 2009 Edition, exam code N01-005.

Course Objectives

Upon successful completion of this course, students will be able to:

- Identify the basic network theory concepts.
- Identify the major network communications methods.
- Describe network media and hardware components.
- Identify the major types of network implementations.
- Identify the components of a TCP/IP network implementation.
- Identify TCP/IP addressing and data delivery methods.
- Identify the major services deployed on TCP/IP networks.
- Identify the components of a LAN implementation.
- Identify the components of a WAN implementation.
- Identify the components of a remote network implementation.
- Identify major issues and technologies in network security.
- Identify the major issues and technologies in network security.
- Identify network security threats and attacks.
- Identify the tools, methods, and techniques used in managing a network.
- Describe troubleshooting of issues on a network.

Course Content

Lesson 1: Network Theory

- Topic 1A: Networking Terminology
- Topic 1B: Network Building Blocks
- Topic 1C: Standard Network Models
- Topic 1D: Physical Network Topologies
- Topic 1E: Logical Network Topologies
- Topic 1F: Network Categories

Lesson 2: Network Communications Methods

- Topic 2A: Transmission Methods
- Topic 2B: Media Access Methods
- Topic 2C: Signaling Methods

Lesson 3: Network Data Delivery

- Topic 3A: Data Addressing and Delivery
- Topic 3B: Delivery Techniques

Lesson 4: Network Media and Hardware

- Topic 4A: Bounded Network Media
- Topic 4B: Unbounded Network Media
- Topic 4C: Noise Control
- Topic 4D: Network Connectivity Devices
- Topic 4E: Wiring Distribution Components

Lesson 5: Network Implementations

- Topic 5A: The OSI Model
- Topic 5B: Ethernet Networks
- Topic 5C: Token Ring Networks
- Topic 5D: Fiber Distributed Data Interface (FDDI) Networks
- Topic 5E: Wireless Technologies and Standards

Lesson 6: Networking with TCP/IP

- Topic 6A: Families of Protocols
- Topic 6B: The TCP/IP Protocol
- Topic 6C: IP Address Basics
- Topic 6D: Custom IP Addresses
- Topic 6E: The IP Version 6 Protocol
- Topic 6F: The TCP/IP Protocol Suite

Lesson 7: TCP/IP Services

- Topic 7A: IP Address Assignment Methods
- Topic 7B: Host Name Resolution
- Topic 7C: TCP/IP Utilities
- Topic 7D: TCP/IP Upper-Layer Services
- Topic 7E: TCP/IP Interoperability Services

Lesson 8: Local Area Network Infrastructure

- Topic 8A: Bridges and Switches
- Topic 8B: IP Routing
- Topic 8C: Static IP Routing
- Topic 8D: Dynamic IP Routing
- Topic 8E: Control Data Movement with Filters and VLANs

Lesson 9: WAN Infrastructure

- Topic 9A: WAN Switching Technologies
- Topic 9B: WAN Transmission Technologies
- Topic 9C: WAN Connectivity Methods
- Topic 9D: Voice Over Data Systems

Lesson 10: Network Security

- Topic 10A: Computer Security Basics
- Topic 10B: Authentication
- Topic 10C: Data Encryption
- Topic 10D: Protect Network Traffic with IP Security (IPsec)
- Topic 10E: Internet Security
- Topic 10F: Local Security
- Topic 10G: Common Threats
- Topic 10H: Threat Mitigation Techniques
- Topic 10I: Intrusion Detection and Prevention
- Topic 10J: Educate Users

Lesson 11: Remote Networking

- Topic 11A: Remote Network Architectures
- Topic 11B: Remote Access Networking Implementations
- Topic 11C: Virtual Private Networking
- Topic 11D: Remote Control Computing

Lesson 12: Disaster Recovery

- Topic 12A: Examine Configuration Management Documentation
- Topic 12B: Plan for Disaster Recovery
- Topic 12C: Fault Tolerance Methods
- Topic 12D: Data Backup

Lesson 13: Network Data Storage

- Topic 13A: Enterprise Data Storage
- Topic 13B: Network-Attached Storage (NAS)
- Topic 13C: Storage Area Network (SAN) Implementations
- Topic 13D: Clustering

Lesson 14: Network Operating Systems

- Topic 14A: UNIX and Linux Operating Systems
- Topic 14B: Apple Mac OS X
- Topic 14C: Microsoft Operating Systems
- Topic 14D: Novell Open Enterprise Server

Lesson 15: Network Management

- Topic 15A: Monitoring Tools
- Topic 15B: Network Baselineing
- Topic 15C: Network Optimization

Lesson 16: Network Troubleshooting

- Topic 16A: Troubleshooting Models
- Topic 16B: TCP/IP Troubleshooting Utilities
- Topic 16C: Hardware Troubleshooting Tools
- Topic 16D: Common Connectivity Issues

Appendix A: Mapping Network+ Course Content to the CompTIA Network+ Exam Objectives**Appendix B: Additional IP Addressing and Subnetting Practice****Appendix C: CompTIA Network+ Acronyms**