

Course Contents

CompTIA N+

Course Contents

1 - Network Theory

- Networking Terminology
- Network Categories
- Standard Network Models
- Physical Network Topologies
- Logical Network Topologies

2 - Network Communications Methods

- Data Transmission Methods
- Media Access Methods
- Signaling Methods

3 - Network Media and Hardware

- Bounded Network Media
- Unbounded Network Media
- Noise Control
- Network Connectivity Devices

4 - Network Implementations

- Ethernet Networks
- Wireless Networks

5 - Networking Models

- The OSI Model
- The TCP/IP Model

6 - TCP/IP Addressing and Data Delivery

- The TCP/IP Protocol Suite
- IP Addressing
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- Create Custom IP Addressing Schemes
- Implement IPv6 Addresses
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7 - TCP/IP Services

- Assign IP Addresses
- Domain Naming Services



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- TCP/IP Commands
- Common TCP/IP Protocols
- TCP/IP Interoperability Services

8 - LAN Infrastructure

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- Implement Dynamic IP Routing
- Virtual LANs
- Plan a SOHO Network

9 - WAN Infrastructure

- WAN Transmission Technologies
- WAN Connectivity Methods
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10 - Remote Networking

- Remote Network Architectures
- Remote Access Networking Implementations
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11 - System Security

- Computer Security Basics
- System Security Tools
- Authentication Methods
- Encryption Methods

12 - Network Security

- Network Perimeter Security
- Intrusion Detection and Prevention
- Protect Network Traffic Using IPSec

13 - Network Security Threats and Attacks

- Network-Based Security Threats and Attacks
- Apply Threat Mitigation Techniques
- Educate Users

14 - Network Management

- Network Monitoring
- Configuration Management Documentation
- Network Performance Optimization

15 - Network Troubleshooting



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- Network Troubleshooting Models
- Network Troubleshooting Utilities
- Hardware Troubleshooting Tools
- Common Connectivity Issues