

CompTIA Network+

Duration: 40 Hrs

Course Content

Network Theory

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

Network Communications Methods

Data Transmission Methods
Media Access Methods
Signaling Methods

Network Media and Hardware

Bounded Network Media
Unbounded Network Media
Network Connectivity Devices

Network Implementations

Ethernet Networks
Wireless Networks

Networking Models

The OSI Model
The TCP/IP Model

TCP/IP Addressing and Data Delivery

The TCP/IP Protocol Suite
IP Addressing
Default IP Addressing Schemes
Create Custom IP Addressing Schemes
Implement IPv6 Addresses
Delivery Techniques

TCP/IP Services

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

LAN Infrastructure

Switching
Enable Static Routing
Virtual LANs

WAN Infrastructure

WAN Transmission Technologies
WAN Connectivity Methods

Remote Networking

Remote Network Architectures
Remote Access Networking Implementations
Virtual Private Networking (VPN)

System Security

Computer Security Basics
System Security Tools
Authentication Methods
Encryption Methods

Network Security

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

Network Security Threats and Attacks

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

Network Management

Network Monitoring
Configuration Management Documentation
Network Performance Optimization

Network Troubleshooting

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