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