

CompTIA Network+

Duration: 5 Days Course Code: G005 Version: N10-008

Overview:

CompTIA Network+ validates the technical skills needed to securely establish, maintain and troubleshoot the essential networks that businesses rely on.

Unlike other vendor-specific networking certifications, CompTIA Network+ prepares candidates to support networks on any platform. CompTIA Network+ is the only certification that covers the specific skills that network professionals need. Other certifications are so broad, they don't cover the hands-on skills and precise knowledge needed in today's networking environments.

Target Audience:

Individuals whose job responsibilities include network administration, installation and security within their organization.

Objectives:

After completing this course you should be able to:

- Deploy and troubleshoot Ethernet networks.
- Support IPv4 and IPv6 networks.
- Configure and troubleshooting routers.
- Support network services and applications.

- Ensure network security and availability.
 - Deploy and troubleshooting wireless networks.
 - Support WAN links and remote access methods.
 - Support organizational procedures and site security controls.
 - Summarize cloud and datacenter architecture.
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Prerequisites:

Attendees should meet the following prerequisites:

- CompTIA recommends 9 to 12 months of network-related IT experience.

Testing and Certification

Recommended as preparation for the following exams:

- **N10-008** - CompTIA Network +
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Follow-on-Courses:

The Network+ course and certification provides successful candidates with a great foundation in Networking and most students use this course as a platform from which they can then branch out into specialties (like network security) or vendor-specific tracks of study. Suggested follow on courses would be:

Content:

Comparing OSI Model Network Functions

- Compare and Contrast OSI Model Layers
- Configure SOHO Networks

Deploying Ethernet Cabling

- Summarize Ethernet Standards
- Summarize Copper Cabling Types
- Summarize Fiber Optic Cabling Types
- Deploy Ethernet Cabling

Deploying Ethernet Switching

- Deploy Networking Devices
- Explain Network Interfaces
- Deploy Common Ethernet Switching Features

Troubleshooting Ethernet Networks

- Explain Network Troubleshooting Methodology
- Troubleshoot Common Cable Connectivity Issues

Explaining IPv4 Addressing

- Explain IPv4 Addressing Schemes
- Explain IPv4 Forwarding
- Configure IP Networks and Subnets

Supporting IPv4 and IPv6 Networks

- Use Appropriate Tools to Test IP Configuration
- Troubleshoot IP Networks
- Explain IPv6 Addressing Schemes

Configuring and Troubleshooting Routers

- Compare and Contrast Routing Concepts
- Compare and Contrast Dynamic Routing Concepts
- Install and Troubleshoot Routers

Explaining Network Topologies and Types

- Explain Network Types and Characteristics
- Explain Tiered Switching Architecture
- Explain Virtual LANs

Explaining Transport Layer Protocols

- Compare and Contrast Transport Protocols
- Use Appropriate Tools to Scan Network Ports

Explaining Network Services

- Explain the Use of Network Addressing Services
- Explain the Use of Name Resolution Services
- Configure DNS Services

Explaining Network Applications

- Explain the Use of Web, File/Print, and Database Services
- Explain the Use of Email and Voice Services

Ensuring Network Availability

- Explain the Use of Network Management Services
- Use Event Management to Ensure Network Availability
- Use Performance Metrics to Ensure Network Availability

Explaining Common Security Concepts

- Explain Common Security Concept
- Explain Authentication Methods

Supporting and Troubleshooting Secure Networks

- Compare and Contrast Security Appliances
- Troubleshoot Service and Security Issues

Deploying and Troubleshooting Wireless Networks

- Summarize Wireless Standards
- Install Wireless Networks
- Troubleshoot Wireless Networks
- Configure and Troubleshoot Wireless Security

Comparing WAN Links and Remote Access Methods

- Explain WAN Provider Links
- Compare and Contrast Remote Access Methods

Explaining Organizational and Physical Security Concepts

- Explain Organizational Documentation and Policies
- Explain Physical Security Methods
- Compare and Contrast Internet of Things Devices

Explaining Disaster Recovery and High Availability Concepts

- Explain Disaster Recovery Concepts
- Explain High Availability Concepts

Applying Network Hardening Techniques

- Compare and Contrast Types of Attacks
- Apply Network Hardening Techniques

Summarizing Cloud and Datacenter Architecture

- Summarize Cloud Concepts
- Explain Virtualization and Storage Area Network Technologies
- Explain Datacenter Network Architecture

Labs:

- Exploring the Lab Environment
- Configure a SOHO Router Capture Network Traffic
- Configure Interface Settings
- Configure IPv4 Static Addressing
- Analyze ARP Traffic
- Use Tools to Test IP Configuration
- Configure IPv6 Static Addressing
- Configure Static Routing
- Configure Dynamic Routing
- Troubleshoot IP Networks (Parts A and B)
- Use Network Scanners
- Analyze a DHCP Server Configuration
- Analyze a DNS Server Configuration
- Analyze Application Security Configurations
- Configure Secure Access Channels

- Configure Syslog
- Analyze Network Performance
- Verify Service and Application Configuration
- Configure a NAT Firewall
- Configure Remote Access
- Develop Network Documentation
- Backup and Restore Network Device Configuration
- Analyze an On-path Attack
- Configure Port Security
- Troubleshoot Service and Security Issues

Further Information:

For More information, or to book your course, please call us on 353-1-814 8200

info@globalknowledge.ie

www.globalknowledge.com/en-ie/

Global Knowledge, 3rd Floor Jervis House, Millennium Walkway, Dublin 1