

## CompTIA Network+

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

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### 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.

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### Target Audience:

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

**Job Roles:** Junior Network Administrator Datacenter Support Technician Network Engineer System Administrator NOC

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### Objectives:

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| ■ <b>After completing this course you should be able to:</b> | ■ Ensure network security and availability.                     |
| ■ Deploy and troubleshoot Ethernet networks.                 | ■ Deploy and troubleshooting wireless networks.                 |
| ■ Support IPv4 and IPv6 networks.                            | ■ Support WAN links and remote access methods.                  |
| ■ Configure and troubleshooting routers.                     | ■ Support organizational procedures and site security controls. |
| ■ Support network services and applications.                 | ■ 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:

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## 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

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### Further Information:

For More information, or to book your course, please call us on 0800/84.009

[info@globalknowledge.be](mailto:info@globalknowledge.be)

[www.globalknowledge.com/en-be/](http://www.globalknowledge.com/en-be/)