CompTIA Network+

Duration: 5 Days **Course Code: G005** **Version: N10-008** **Delivery Method: Company Event**

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.

Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

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.

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 +

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. Siuggested 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 Storgae Area Network Technologies
- Explain Datacenter Network Architecture

Labs:

- Exploring the Lab Environment
- Configure a SOHO RouterCapture 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 Head Office 01189 123456 / Northern Office 0113 242 5931

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