

CompTIA Network+ N10-008



Course Name	CompTIA Network+
Course Code	N10-008
Course Duration	5 Days
Course Structure	Instructor-Led
Course Overview	<p>Whether employees are working in a physical office or working from home, IT pros need to have computer networking skills to keep their organizations operating smoothly. The new CompTIA Network+ (N10-008) does just that! As a vendor-neutral networking certification, CompTIA Network+ prepares candidates to support networks on any platform. It provides the foundation you need to work on networks anytime and anywhere.</p> <p>CompTIA Network+ validates the technical skills needed to securely establish, maintain and troubleshoot the essential networks that businesses rely on.</p>
Audience Profile	<p>This course is suitable to students with roles as</p> <ul style="list-style-type: none"> • Network Field Technician/Engineer • Network Administrator • Help Desk Technician • Network Support Specialist • Network Analyst
Course Prerequisites	<ul style="list-style-type: none"> • CompTIA A+ and/or a minimum of 9 months networking experience recommended
Course Outcome	<p>After completing this course, students will be able to:</p> <ul style="list-style-type: none"> • Compare OSI Model Network Functions • Deploy Ethernet Cabling • Deploy Ethernet Switching • Troubleshoot Ethernet Networks • Explain IPv4 Addressing • Support IPv4 and IPv6 Networks

	<ul style="list-style-type: none"> • Configure and Troubleshoot Routers • Explain Network Topologies and Types • Explain Transport Layer Protocols • Explain Network Services • Explain Network Applications • Ensure Network Availability • Explain Common Security Concepts • Support and Troubleshoot Secure Networks • Deploy and Troubleshoot Wireless Networks • Compare WAN Links and Remote Access Methods • Explain Organizational and Physical Security Concepts • Explain Disaster Recovery and High Availability Concepts • Apply Network Hardening Techniques • Summarize Cloud and Datacenter Architecture
Assessment/Evaluation	<p>This course will prepare delegates to take the 10964: CompTIA Network+ exam</p> <p>Successfully passing this exam will result in the attainment of the CompTIA Network+ Certification and Certificate of Attendance issued by IT-IQ Botswana</p>

Course Details	
Topic	<p>TOPIC 1: COMPARING OSI MODEL NETWORK FUNCTIONS Lesson 1A: Compare and Contrast OSI Model Layers Lesson 1B: Configure SOHO Networks</p> <p>TOPIC 2: DEPLOYING ETHERNET CABLING Lesson 2A: Summarize Ethernet Standards Lesson 2B: Summarize Copper Cabling Types Lesson 2C: Summarize Fiber Optic Cabling Types</p> <p>TOPIC 3: DEPLOYING ETHERNET SWITCHING Lesson 3A: Deploy Networking Devices</p>

	<p>Lesson 3B: Explain Network Interfaces Lesson 3C: Deploy Common Ethernet Switching Features</p> <p>TOPIC 4: TROUBLESHOOTING ETHERNET NETWORKS Lesson 4A: Explain Network Troubleshooting Methodology Lesson 4B: Troubleshoot Common Cable Connectivity Issues</p> <p>TOPIC 5: EXPLAINING IPV4 ADDRESSING Lesson 5A: Explain IPv4 Addressing Schemes Lesson 5B: Explain IPv4 Forwarding Lesson 5C: Configure IP Networks and Subnets</p> <p>TOPIC 6: SUPPORTING IPV4 AND IPV6 NETWORKS Lesson 6A: Use Appropriate Tools to Test IP Configuration Lesson 6B: Troubleshoot IP Networks Lesson 6C: Explain IPv6 Addressing Schemes</p> <p>TOPIC 7: CONFIGURING AND TROUBLESHOOTING ROUTERS Lesson 7A: Compare and Contrast Routing Concepts Lesson 7B: Compare and Contrast Dynamic Routing Concepts Lesson 7C: Install and Troubleshoot Routers</p> <p>TOPIC 8: EXPLAINING NETWORK TOPOLOGIES AND TYPES Lesson 8A: Explain Network Types and Characteristics Lesson 8B: Explain Tiered Switching Architecture Lesson 8C: Explain Virtual LANs</p> <p>TOPIC 9: EXPLAINING TRANSPORT LAYER PROTOCOLS Lesson 9A: Compare and Contrast Transport Protocols Lesson 9B: Use Appropriate Tools to Scan Network Ports</p> <p>TOPIC 10: EXPLAINING NETWORK SERVICES Lesson 10A: Explain the Use of Network Addressing Services Lesson 10B: Explain the Use of Name Resolution Services Lesson 10C: Configure DNS Services</p>
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	<p>TOPIC 11: EXPLAINING NETWORK APPLICATIONS Lesson 11A: Explain the Use of Web, File/Print, and Database Services Lesson 11B: Explain the Use of Email and Voice Services</p> <p>TOPIC 12: ENSURING NETWORK AVAILABILITY Lesson 12A: Explain the Use of Network Management Services Lesson 12B: Use Event Management to Ensure Network Availability Lesson 12C: Use Performance Metrics to Ensure Network Availability</p> <p>TOPIC 13: EXPLAINING COMMON SECURITY CONCEPTS Lesson 13A: Explain Common Security Concepts Lesson 13B: Explain Authentication Methods</p> <p>TOPIC 14: SUPPORTING AND TROUBLESHOOTING SECURE NETWORKS Lesson 14A: Compare and Contrast Security Appliances Lesson 14B: Troubleshoot Service and Security Issues</p> <p>TOPIC 15: DEPLOYING AND TROUBLESHOOTING WIRELESS NETWORKS Lesson 15A: Summarize Wireless Standards Lesson 15B: Install Wireless Networks Lesson 15C: Troubleshoot Wireless Networks Lesson 15D: Configure and Troubleshoot Wireless Security</p> <p>TOPIC 16: COMPARING WAN LINKS AND REMOTE ACCESS METHODS Lesson 16A: Explain WAN Provider Links Lesson 16B: Compare and Contrast Remote Access Methods</p> <p>TOPIC 17: EXPLAINING ORGANIZATIONAL AND PHYSICAL SECURITY CONCEPTS Lesson 17A: Explain Organizational Documentation and Policies Lesson 17B: Explain Physical Security Methods Lesson 17C: Compare and Contrast Internet of Things Devices</p>
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	<p>TOPIC 18: EXPLAINING DISASTER RECOVERY AND HIGH AVAILABILITY CONCEPTS Lesson 18A: Explain Disaster Recovery Concepts Lesson 18B: Explain High Availability Concepts</p> <p>TOPIC 19: APPLYING NETWORK HARDENING TECHNIQUES Lesson 19A: Applying Network Hardening Techniques Lesson 19B: Apply Network Hardening Techniques</p> <p>TOPIC 20: SUMMARIZING CLOUD AND DATACENTER ARCHITECTURE Lesson 20A: Summarize Cloud Concepts Lesson 20B: Explain Virtualization and Storage Area Network Technologies Lesson 20C: Explain Datacenter Network Architecture</p>
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