

# INTERNATIONAL CERTIFICATION

## COMPTIA NETWORK+



CompTIA Network+ is an ISO-17024 compliant, vendor-neutral technology certification that verifies the certified individual has the skills and knowledge needed to take on a pivotal role in building, managing, and protecting the critical asset that is the data network.

Network support professionals remain in high demand in the marketplace. The CompTIA Network+ certification enables skills and competencies as a network professional with the abilities to work in multiple platforms and functions.

The CompTIA Network+ covers the configuration, management, and troubleshooting of common wired and wireless network devices. Also included are emerging technologies such as unified communications, mobile, cloud, and virtualization technologies. These skills provide access into various further Network specialisation programmes and the programme thus serves as a distinctive step toward a career in networking or telecommunications.

### EMPLOYMENT OPPORTUNITIES

Worldwide statistics show that the certification is already held by 900,000 IT professionals. The growth opportunities are higher in Fortune 500 companies like Canon, Dell, Intel and Lenovo service techs.

Career opportunities in this field include:

- Network Field Technician / Engineer
- Network Administrator
- Network Support Specialist
- Help Desk Technician
- Network Analyst

### ENTRANCE REQUIREMENTS

- Grade 10/Standard 8 with CompTIA A+ Certification or equivalent is recommended or relevant work experience in an IT support and Networking environment (1 year).
- Access to a Computer is required

### COURSE DURATION

Based on contact hours as determined by the accreditation body and based on HC Varsity course progression structure and schedule:

- Full Time - approximately 3 months
- Part Time - approximately 5 months
- Distance Learning - approximately 5 months

## **COURSE CONTENT**

CompTIA Network+ (N10-005)

### **Network Architecture:**

- Explain the functions and applications of various network devices
- Compare and contrast the use of networking services and applications
- Install and configure the following networking services/applications
- Explain the characteristics and benefits of various WAN technologies
- Install and properly terminate various cable types and connectors using appropriate tools
- Differentiate between common network topologies
- Differentiate between network infrastructure implementations
- Given a scenario, implement and configure the appropriate addressing schema
- Explain the basics of routing concepts and protocols
- Identify the basic elements of unified communication technologies
- Compare and contrast technologies that support cloud and virtualization
- Given a set of requirements, implement a basic network

### **Network Operations:**

- Given a scenario, use appropriate monitoring tools
- Given a scenario, analyse metrics and reports from monitoring and tracking performance tools
- Given a scenario, use appropriate resources to support configuration management
- Explain the importance of implementing network segmentation
- Given a scenario, install and apply patches and updates
- Given a scenario, configure a switch using proper features
- Install and configure wireless LAN infrastructure and implement the appropriate technologies in support of wireless capable devices

### **Network Security:**

- Compare and contrast risk related concepts
- Compare and contrast common network vulnerabilities and threats
- Given a scenario, implement network hardening techniques
- Compare and contrast physical security controls
- Given a scenario, install and configure a basic firewall
- Explain the purpose of various network access control models
- Summarize basic forensic concepts

### **Troubleshooting:**

- Given a scenario, implement the following network troubleshooting methodology
- Given a scenario, analyse and interpret the output of troubleshooting tools
- Given a scenario, troubleshoot and resolve common wireless issues
- Given a scenario, troubleshoot and resolve common copper cable issues
- Given a scenario, troubleshoot and resolve common fibre cable issues
- Given a scenario, troubleshoot and resolve common network issues
- Given a scenario, troubleshoot and resolve common security issues

- Given a scenario, troubleshoot and resolve common WAN issues.

#### **Industry standards, practices, and network theory:**

- Analyse a scenario and determine the corresponding OSI layer
- Explain the basics of network theory and concepts
- Given a scenario, deploy the appropriate wireless standard
- Given a scenario, deploy the appropriate wired connectivity standard
- Given a scenario, implement the appropriate policies or procedures
- Summarize safety practices
- Given a scenario, install and configure equipment in the appropriate location using best practices
- Explain the basics of change management procedures
- Compare and contrast the following ports and protocols
- Given a scenario, configure and apply the appropriate ports and protocols

#### **ASSESSMENTS**

The CompTIA N+ Certification is externally examined at a Pearson VUE testing centre. HC Varsity is an accredited testing centre. HC Varsity can also offer practice tests to prepare the learner for the final exam.

#### **CERTIFICATION**

On successful completion of your external exams you will receive the internationally recognised CompTIA Network+ Certificate

#### **FURTHER STUDIES**

After successful completion of the course, there are several career paths that you may specialise in. Please contact HC Varsity for further information.