

Programme Title	Certificate: Network Technician
Duration	±6 months
Admission Requirements	English Proficiency Basic Computer Skills
Programme type	Available in Full time and Part time

Overview

This course is designed to provide network technicians and support staff with the foundation level skills they need to install, operate, manage, maintain, and troubleshoot a corporate network.

This course will help prepare students for the CompTIA Network+ exam N10-007 certification exam.

Network+ Exam Number: N10-007	
<p>Objective 1: Networking Concepts</p> <ul style="list-style-type: none"> • Explain the purposes and uses of ports and protocols. • Explain devices, applications, protocols and services at their appropriate OSI layers • Explain the concepts and characteristics of routing and switching. • Given a scenario, configure the appropriate IP addressing components. • Compare and contrast the characteristics of network topologies, types and technologies. • Given a scenario, implement the appropriate wireless technologies and configurations. • Summarize cloud concepts and their purposes. • Explain the functions of network services. 	<p>Objective 2: Infrastructure</p> <ul style="list-style-type: none"> • Given a scenario, deploy the appropriate cabling solution. • Given a scenario, determine the appropriate placement of networking devices on a network and install/configure them. • Explain the purposes and use cases for advanced networking devices. • Explain the purposes of virtualization and network storage technologies. • Compare and contrast WAN technologies.
<p>Objective 3: Network Operations</p> <ul style="list-style-type: none"> • Given a scenario, use appropriate documentation and diagrams to manage the network • Compare and contrast business continuity and disaster recovery concepts. • Explain common scanning, monitoring and patching processes and summarize their expected outputs. • Given a scenario, use remote access methods. • Identify policies and best practices 	<p>Objective 4: Network Security</p> <ul style="list-style-type: none"> • Summarize the purposes of physical security devices. • Explain authentication and access controls • Given a scenario, secure a basic wireless network. • Summarize common networking attacks • Given a scenario, implement network device hardening • Explain common mitigation techniques and their purposes.
<p>Objective 3: Network Operations</p> <ul style="list-style-type: none"> • Explain the network troubleshooting methodology. • Given a scenario, use the appropriate tool. • Given a scenario, troubleshoot common wired connectivity and performance issues. • Given a scenario, troubleshoot common wireless connectivity and performance issues. • Given a scenario, troubleshoot common network service issues. 	<p>Certification upon successful completion</p> <ul style="list-style-type: none"> • Provider Network Technician Certificate • Optional: CompTIA Certificate N+ on successful completion of CompTIA exams

