

Course Description:

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+ 2009 certification exam. It should be noted that a course alone cannot prepare students for any CompTIA exam. It is important that students have the recommended work experience in IT networking prior to taking the exam. For the CompTIA Network+ 2009 certification, CompTIA recommends students have 9 to 12 months of experience in the IT support industry. If you are taking this course with the exam voucher, it is for exam N10-0005.

Who Should Attend:

This course is geared toward technicians with nine to 12 months of experience in the IT industry who wish to earn their Network+ certification.

Prerequisites:

An introductory course in a Windows operating system, or equivalent skills and knowledge, is required. CompTIA A+ certification, or the equivalent skills and knowledge, is helpful but not required.

Benefits of Attendance:

Upon completion of this course, students will be able to:

- Identify the basic components of network theory.
- Identify the major network communications methods.
- Identify network data delivery methods.
- List and describe network media and hardware components.
- Identify the major types of network implementations.
- Identify the components of a TCP/IP network implementation.
- List the major services deployed on TCP/IP networks.
- Identify characteristics of a variety of network protocols.
- Identify the components of a LAN implementation.
- Identify the components of a WAN implementation.
- Identify major issues and technologies in network security.
- Identify the components of a remote network implementation.
- Identify major issues and technologies in disaster recovery.
- Identify major data storage technologies and implementations.
- Identify the primary network operating systems.
- Identify major issues, models, tools, and techniques in network troubleshooting.

Course Outline:**Network basics**

Network concepts
Network architectures
The OSI model

Wired computer-to-computer connections

Wired network connections
Network interface cards and modems

Network-to-network connections

Network-to-network connection components
LAN wiring
LAN wiring tests

Wired internetworking devices

Basic internetworking devices
Specialized internetworking devices

Wired communication standards

The TCP/IP protocol suite
TCP/IP
DHCP servers

Wireless networking

Wireless network devices
Wireless networking standards
Wireless configuration

Security threats and mitigation

Security threats
Threat mitigation

Security practices

Operating systems
Devices

Network access control

Authentication
Public key cryptography
Remote access
Wireless security

Monitoring

Monitoring resources
Event Viewer

Troubleshooting

Troubleshooting basics

Troubleshooting the network
Troubleshooting scenarios

Appendix A: Certification exam objectives map

Comprehensive exam objectives

Appendix B: CompTIA Network+ Acronyms

Acronym list