

# CompTIA Network+/Server+ Certification Training

80 hours

## Course Overview/Description

The CompTIA Network+ certification is the worldwide standard of competency for professionals with nine months experience in network support or administration. The Network + certification validates technical competency in networking administration and support. Those holding Network+ certification demonstrate critical knowledge of media and topologies, protocols and standards, network implementation and network support. This certification is geared toward those with nine months field experience in network administration and support. The technology community identifies Network+ as the perfect entry point into a networking career. Server+ certified professionals provide planning, installation, configuration, and maintenance of servers, with knowledge of server-level hardware implementations, data storage subsystems, data recovery, and I/O subsystems. The demand for skilled network support professionals has grown significantly.

## Course Objectives

The primary objective of the Network+/Server+ program is to prepare students for CompTIA certification.

- The Network+ designation is offered by CompTIA as a certification of the holder's proficiency in configuring and operating a variety of industry-standard network products. It includes new technologies such as wireless networking and gigabit Ethernet.
- The Server+ designation is offered by CompTIA designation (vendor-neutral) for mid-level and upper level technicians who are responsible for hardware functionality of computers at a level that is more sophisticated than entry-level.

## Course Outline

- The Foundations of Networking
- The OSI/802 Model
- Network Design
- Network Cabling Media
- Wireless Communication
- Network Data Transmission
- Network Architecture
- Network Infrastructure Components
- Preparing for Server Installation



- Installing the Server
- Server-Based Network Operating Systems
- Implementing a Multi-Vendor Environment
- Server Configuration
- TCP/IP
- WAN Connectivity
- WAN Devices
- WAN Protocols and Standards
- Server Tools
- Proactive Server Maintenance
- Server Upgrades
- Server Security Issues
- Network and Server Maintenance and Troubleshooting
- Disaster Recovery Training

### **Prerequisites/Audience**

Students should have A+ Certification or equal experience. This course is intended to students seeking to prepare for Network+/Server+ certification

### **PC Requirements/Materials Included**

**This course is compatible with Windows Vista Operating System.**

It is Highly Recommended that students have a high speed internet connection (DSL or Cable). Software Programs are only compatible with Microsoft Operating System and Internet Explorer.

Following is the list of software that must be downloaded:

- Adobe Acrobat Reader version 5
- Excel Viewer
- Internet Explorer 6
- WindowsMedia Player 7.1 for WIN 98. WIN 2000 and WIN Me
- RealOne Player
- PowerPoint Viewer
- Word Viewer
- WinZip 8

Minimum Monitor: 15" Super VGA Monitor (minimum) 17" is best

Minimum Processor: Pentium 300 or better

Network Adapter: 10 base T

Minimum RAM: At least 128MB

Minimum Hard Drive: At least 4 GB



Minimum CD Drive: CD-ROM drive (24x or greater)

Minimum Sound Card: 16 Bit

Minimum Video Adaptor: At least 8MB

Sound Headsets (Microphone optional)

Minimum Screen Resolution: 800 x 600 true color (1024 x 768 is best)

Minimum Operating System: Windows 98 or Windows 2000 Professional

Internet Connection: Cable modem or ADSL

The materials included with this course are:

- Network+/Server+ Course book
- Access to an online IT Library

The following materials will be necessary to complete the Labs for this program and are to be provided by the student. The following materials are not included with the course fee:

- Patch cable (seven feet is sufficient for each cable)
- Scissors
- RJ-45 connectors (normally two per cable, but more for practice)
- RJ-45 crimpers
- Utility knife
- A network card
- Device drivers for the card
- A computer running Microsoft Windows
- Students will need access to the necessary Windows source files to install TCP/ IP

### **Instructor Bio**

**Chris Lobban** brings his industry experience with an extensive assortment of hardware and software solutions. Before starting at Academy of Learning he had worked both in a Help Desk environment and as a Quality Assurance Analyst, where he had to deal with a wide array of different hardware requirements, operating systems, and computer programs every day. This broad experience base, added to his formal training as a Computer Networking and Technical Support Specialist from Seneca College, gives him the training and experience needed to provide support to his students. Chris has also certified his experience by earning the CompTIA A+ IT Technician, Network+, Server+ and Security+ credentials, as well as the Microsoft MCSE (Windows Server 2003), MCSA (Windows Server 2003) and MCDST (Windows XP) credentials.