



**CTREC HILTON**  
IT ACADEMY

5051 Westheimer  
Suite 500  
Houston, Texas 77056  
(713) 871-8411  
866-88-C-TREC  
Fax (713) 622-1915

Class Code: N+  
Number of Days: 5  
Format: Instructor-Led

## CompTIA Network+® (2009 Objectives)

**Course Description:** The CompTIA Network+® (2009 Objectives) course builds on your existing user-level knowledge and experience with personal computer operating systems and networks to present fundamental skills and concepts that you will use on the job in any type of networking career. If you are pursuing a CompTIA technical certification path, the CompTIA A+ certification is an excellent first step to take before preparing for the CompTIA Network+ certification.

**Target Audience:** This course is intended for entry-level computer support professionals with basic knowledge of computer hardware, software, and operating systems, who wish to increase their knowledge and understanding of networking concepts and skills to prepare for a career in network support or administration, or to prepare for the CompTIA Network+® (2009 Objectives) exam (exam number N10-004).

**Prerequisites:** Basic Windows skills and a fundamental understanding of computer concepts are required. Before attending this course, students must also have:

- CompTIA A+ certification, or the equivalent skills and knowledge, is helpful but not required.
- Students may wish to take the following Element K course: CompTIA A+ Certification: A Comprehensive Approach for all 2006 Exam Objectives.

A typical student in the CompTIA Network+® (2009 Objectives) course should have nine months or more of professional computer support experience as a PC technician or help desk technician. Network experience is helpful but not required; A+ certification or the equivalent skills and knowl-

**Delivery Method:** Instructor led, group-paced, classroom-delivery learning model with structured hands-on activities.

### Performance-Based Objectives

Upon successful 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.

## Performance-Based Objectives - Continued

- identify the major services deployed on TCP/IP networks.
- 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.
- explore tools, methods, and techniques used in managing a network.
- describe how to troubleshoot network issues.

## Course Outline

### Lesson 1: Network Theory

- Topic 1A: Networking Terminology
- Topic 1B: Network Building Blocks
- Topic 1C: Standard Network Models
- Topic 1D: Physical Network Topologies
- Topic 1E: Logical Network Topologies
- Topic 1F: Network Categories

### Lesson 2: Network Communications Methods

- Topic 2A: Transmission Methods
- Topic 2B: Media Access Methods
- Topic 2C: Signaling Methods

### Lesson 2: Network Communications Methods

- Topic 3A: Data Addressing and Delivery
- Topic 2C: Signaling Methods

### Lesson 4: Network Media and Hardware

- Topic 4A: Bounded Network Media
- Topic 4B: Unbounded Network Media
- Topic 4C: Noise Control
- Topic 4D: Network Connectivity Devices
- Topic 4E: Wiring Distribution Components