



CENTRAL PIEDMONT COMMUNITY COLLEGE

CORPORATE & CONTINUING EDUCATION

Course Number: DPT7012
Course Title: Network+ Certification Prep
Course Hours: 30 Hours

Last Revised On: 08/18/09

Description:

This ILT 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.

Objectives:

Prepare for the Network+ Certification exam

Content:

- I. Network Basics
 - Network Concepts
 - Network Architects
 - The OSI Model
- II. Wired Computer to Computer Connections
 - Wired Network Connections
 - Network Interface Cards and Modems
- III. Network to Network Connections
 - Network to Network Connection Components
 - LAN Wiring
 - LAN Wiring Tests
- IV. Wired Internetworking Devices
 - Basic Internetworking Devices
 - Specialized Internetworking Devices
- V. Wired Communications Standards
 - The TCP/IP Protocol Suite
 - TCP/IP
 - DHCP servers



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- VI. Wireless Networking
 - Wireless Networking Devices
 - Wireless Networking Standards
 - Wireless Configuration

- VII. Security Threats and Mitigation
 - Security Threats
 - Threat Mitigation

- VIII. Security Practices
 - Operating Systems
 - Devices

- IX. Network Access Control
 - Authentication
 - Public key Cryptography
 - Remote Access
 - Wireless Security

- X. Monitoring
 - Monitoring Resources
 - Event Viewer

- XI. Troubleshooting
 - Troubleshooting Basics
 - Troubleshooting the Network
 - Troubleshooting Scenarios

Prerequisites:

9-12 months experience in the IT support industry. It is suggested that student have completed an A+ course.

Method of Instruction:

Lecture, demonstration, hands-on.

Evaluation:

Demonstration of Skill: Yes

Class Participation: Yes