

Network+ Certification

(CPMT-1073)

Course Syllabus

Course: CPMT-1073 Computer Networking Technology 60 hours

Course Description:

Network+ is a CompTIA vendor neutral certification that measures the technical knowledge of networking professionals. Earning the Network+ certification means that the candidate possesses the knowledge needed to configure and operate a variety of networking products. This exam covers a wide range of vendor and product neutral networking technologies that can also serve as a prerequisite for vendor-specific IT certifications. The Network+ training program at Austin Community College is a 60-hour program including lecture, labs, and exam preparation. The course will prepare students for the CompTIA Network+ certification examination (2009 Objectives) – Exam (N10 -4)

Prerequisite: A+ certification or equivalent knowledge.

Rationale:

Basic network maintenance is a core skill for many workforce positions.

Evaluation:

Those who participate in class discussions, complete class labs and miss no more than three class meetings will be awarded 6 continuing education units. Ultimate evaluation of the student will be their successfully passing the CompTIA Network+ examination.

Course Objectives:

At the conclusion of the course, students will have mastery of the following subjects.

- Describe the basic components and characteristics of a network
- Identify wired network-to-network connections
- Install LAN wiring components
- Differentiate between network interconnecting devices
- Configure the TCP/IP communication protocols for a wired connection
- Install wireless networking components
- Identify common security threats and mitigation techniques
- Secure operating systems and network devices
- Control access to the network
- Monitor network resources
- Troubleshoot the network

Book required: CompTIA Network+ All-in-One Exam Guide, Fourth Edition, 4th Edition, Michael Meyers, 2009, ISBN-13 9780071614870

Class Modules:

- Class introduction- Administration
- Unit 1- Network Basics
- Unit 2 - Wired Computer-to-Computer
- Unit 3 – Network-to-Network Connections
- Unit 4– Wired Internetworking Devices
- Unit 5 – Wired Communication Standards
- Unit 6 – Wired Networking
- Unit 7 – Security Threats and Mitigations

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- Unit 8 – Security Practices
- Unit 9 – Network Access Control
- Unit 10 – Monitoring
- Unit 11– Network Troubleshooting
- Review (time permitting)

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Chapter 13 – Network Operation Systems

Chapter 14 – Resources

Chapter 15 – Going Large with TCP/IP

Chapter 16 – TCP/IP and the Internet

Chapter 17 – Remote Connectivity

Chapter 18 – Protecting Your Network

Chapter 19 – Interconnecting Network Operating Systems

Chapter 20 – The Perfect Server

Chapter 21 – Zen and the Art of Network Support

Practice Tests

Lab – Setup Peer-to-Peer network in class

Review – (Quiz)