



CENTRAL PIEDMONT COMMUNITY COLLEGE

CORPORATE & CONTINUING EDUCATION

Course Number: DPT7018
Course Name: Introduction to Wireless Networking
Course Length: 21 Hours

Last Revised On: 8/14/09

Description:

This course covers wireless basics and practical information on the selection of equipment, building connections, setup of access points on wired networks. Also looks at concerns about security, and authentication keeping data and networks safe.

Objectives:

- Provide practical information and advice for anyone trying to work with a wireless network
- Introduce wireless networking basics
- Create and build your wireless network
- Discuss topics that concern security and authentication
- Locate and use the internet access from wireless networks as you travel form home

Content:

1. Wireless Basics
 - How it works
 - Wireless standards
 - Wireless hardware
 - Other standards
 - Near future wireless
2. Connecting your computer to:
 - Windows PC
 - Centrino laptop
 - Macintosh
 - Linux
 - Handheld and PocketPC
 - Bluetooth
 - Creating an AdHoc wireless network
3. Building your wireless network
 - Planning your wireless network
 - Buying a wireless Gateway
 - Setting up the Gateway
 - Adding wireless gadgets



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- Creating a software access point
 - Bridging wireless networks
 - Indoor antenna basics
 - Small office Wi-Fi networking
 - Troubleshooting
4. Wireless security
- Stuff to worry about
 - Preventing access to your network
 - Securing data in transit
 - Protecting your system
5. Traveler on the road needs
- Finding Wi-Fi service
 - Configuring WISP software
 - Using cellular data networks
 - Advice on using wireless while traveling
6. Setting up a long –range wireless network
- Long range Wi-Fi connections
 - Long range antenna basics
7. Additional Information
- Network Basics
 - Configuring TCP/IP settings

Prerequisites:

- Basic knowledge of Window XP, and some Internet

Method of Instruction:

- Lecture, demonstration and hands-on use.

Evaluation:

- Exam: NO
- Demonstration of Skills: YES
- Class participation: YES