

Home Networking

Course Length	3 days
Course Code	7100
Prerequisites	None, however an Introduction to Data technologies course is extremely helpful.
Course Overview:	This course introduces the student to Home Networking concepts. The majority of the course is hands-on working with both common hardware and software used in small businesses and residential environments.

**This course can be customized or combined to meet specific system requirements*

Course Outline

Networking Overview

- Home Network Applications
- Network Architecture
- Physical Hardware
- Protocols

Benefits of Networking

- Sharing Resources
- Centralized Network Management

Networking to the Next Level

- New Trends
- Technologies
- Uses
- New Equipment

Networking Terminology

- WAN/LAN
- IP
- TCP/UDP



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Home Networking

Router Overview

- How Routers work
- Routers and the Internet

Networking Equipment

- Routers
- Hubs
- Switches
- PCs/NIC Cards
- Web Cams
- Media Players
- Home Appliances
- Print Servers
- Range Extenders

Cabling

- CAT 3,5,5e,6
- Cross-over
- Straight-Thru
- Cable Length Requirements

Networking Essentials

- Computer Commands
- Control Panel
- Network Connections
- Network Adapters
- Network ID/Workgroups

Folder and File Sharing

Network Protocols

- TCP/IP
- IP Addressing
- Public/Private
- Invalid Adresses
- Addressing (Static, Dynamic)
- DHCP
- DNS

Wireless Networking

- Overview
- Benefits
- Technologies in the LAN
- Planning
- Configuring

Home Networking

Wireless Security

- WEP

- WPA

- MAC Filtering

Network Administration

- Administering the Network

- Network Security

- Firewall Basics

Setting up the Network

- Installing the Hardware

- Cabling

- Configuring the Software

Network Troubleshooting and Maintenance