

ROI Training, Inc.

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Course 101: Networking for the Business Professional

Course Description...

The world of computer networking is sometimes a black hole to those in business who have to work with the computer software, hardware and networks that populate business today. This course will demystify the world of networking and provide enough understanding to the businessperson that they will be able to converse with networking professionals to explain their needs, wants and expectations.

Learning Objectives...

- Gain a familiarity with the way computers communicate over distances
- Understand the concepts of protocols and standards in networking
- Be able to converse intelligently with networking professionals about the workings of networks

Who should attend...

Anyone who needs to know more about how computers are able to talk to each other.

Prerequisites...

No prerequisites are necessary for this class



Course Outline...

Course Objective

Unit 1: Introduction and Overview

Unit 2: Motivations for Networking

- Applications of networks
- Defining the organizational network
- What Is gained by networking
- The challenges in learning how to apply networking

Unit 3: Protocols and Network Fundamentals

- Protocols
 - Definition
 - Standards
- Defining the network
- Wires and cables
 - Wireless

Unit 4: Physical Communications Options

- Definition
- Inter- vs. intra-computer communications
- Circuit selection
- Modems
 - Types
 - Standards
 - DSL versus cable modems
- Digital carriers
- Multiplexing

Unit 5: Local Area Networks (LAN)

- Introduction to LANs
- LAN standards
- The need for speed
 - Megabits and gigabits
- Other LANs
- Interconnection of LANs

Unit 6: Wide Area Networks (WAN)

- Introduction to WAN links
- Point to point data link layer protocols
- Network layer protocol characteristics



Unit 7: Internetworking in the Organization

- General concepts
- Internet protocol
- Router capabilities

Unit 8: Using the Networks

- Network security
- Network management
- Network applications
- E-mail and communications
 - File transfer
 - Device access

Unit 9: The Wireless Network

- How it works
- Uses for business

Unit 10: Keeping It Safe

- Why that is important
- Your responsibility
- What can happen
- Social engineering
- Look out!