



# PC Fundamentals EZS-900



## Quick View

- ▶ Provides an overall approach to computer system management and troubleshooting
- ▶ Flexible and Modular Curriculum

## System Components

- ▶ EB-900 Textbook/workbook
- ▶ EB-300-50 Instructor's Guide
- ▶ EB-300-30 Student Parts Pack

## Instructor Support Module (ISM)

- ▶ Material Required for Lecture
- ▶ Material Required for Each Lab Station
- ▶ Exercise Objectives
- ▶ PowerPoint Presentations (.ppt and .html versions)

## Classroom Hours

- ▶ 90 hours

## Prerequisites

- ▶ None

**P**c Fundamentals is designed to develop the technical skills measured by the new CompTIA A+ Certification exam.

Designed to fill a semester, the 50-hands-on exercises take a student through the construction, upgrading, troubleshooting, and repair of common problems found in a contemporary Windows PC. Repeatable hardware problems are inserted with Heathkit's OmniFIRM, as well as a series of Windows "bugs". These "bugs" were created in a range of difficulty levels guaranteed to challenge each student at an appropriate level. Heathkit's PC Fundamentals prepares and qualifies students to take the CompTIA A+ Certification exam in one comprehensive course.

**Preliminary\***

*\*Subject to change without notice*



# PC Fundamentals

## Hands-On Experiments

- 1 Inside the Computer
- 2 Computer Power
- 3 The Motherboard
- 4 Installing Computer Components
- 5 Installing and Configuring Windows XP
- 6 The Windows Desktop, Part 1
- 7 The Windows Desktop, Part 2
- 8 Organizing the Desktop
- 9 Working with Files and Folders
- 10 Using the Command Line
- 11 Files and Their Attributes
- 12 The Windows XP File System
- 13 Controlling Windows Access
- 14 Windows Security
- 15 Hard Disk Drive Recovery
- 16 Safe Mode
- 17 Using the Recovery Console
- 18 Backing Up Your Data
- 19 System Inventory
- 20 Drive Interfaces
- 21 Working with the Windows Control Panel
- 22 Registry Basics
- 23 Memory
- 24 Virus Detection and Prevention

## Hands-On Experiments (continued)

- 25 Using Floppy Drives
- 26 Configuring the Sound System
- 27 Hard Drive Maintenance
- 28 Computer Management
- 29 Working with Hardware Passwords
- 30 The Microsoft Management Console
- 31 Troubleshooting a Boot Failure
- 32 Video System Troubleshooting
- 33 Troubleshooting with the Monitor
- 34 Troubleshooting without the Monitor
- 35 System Cooling
- 36 Troubleshooting a Malfunctioning PC
- 37 Troubleshooting the System
- 38 The Troubleshooting Process
- 39 Survey the Laptop Components
- 40 Displays and Resolution
- 41 Universal Serial Bus
- 42 Power Management
- 43 The Network Interface Card (NIC)
- 44 Exploring Network Properties
- 45 The Peer-to-Peer Network
- 46 Exploring the Ethernet LAN

## Hands-On Experiments (continued)

- 47 Sharing Resources
- 48 Introduction to TCP/ICP
- 49 Installing Printer Devices
- 50 Sharing Printer Resources

## Parts Pack Includes: (but not limited to)

DVD/CD Burner  
OmniFIRM  
Video FIRM  
1 GB USB Flash Drive  
PCI Network Interface Card  
Pentium D820 775-pin CPU