

# PC Repair Course Outline

## PC Repair Module 1

### Understanding the Personal Computer

- Terminology
- Evolution of Software
- Installing a New Computer
- Hardware Components
- Function of the CPU
- Memory, Input, Output, and Storage Devices
- Operating Systems
- Internet and Online Services
- Troubleshooting PC Problems and Errors

## PC Repair Module 2

### An Introduction to Upgrading and Repairing PCs

- PC Components, Features, and System Design
- Microprocessor Types and Specifications
- Microprocessors from 1971 to the Present
- Processor Specifications, Features, Manufacturing, Socket and Slot Types
- CPU Operating Voltages
- Heat and Cooling Problems
- Math Coprocessors (Floating-point Units)
- Processor Generations and Multicore Processors
- Processor Upgrades and Troubleshooting Techniques
- Motherboards, Chipsets, and Buses
- System Bus Types, Functions, and Features
- System Resources
- Resolving Resource Conflicts
- Motherboard Selection Criteria

## PC Repair Module 3

### BIOS and Memory

- BIOS Hardware/Software
- Motherboard ROM BIOS
- Upgrading the BIOS
- Preboot Environment
- BIOS/MBR Error Messages
- SDRAM, RDRAM, and other types of Memory
- Pinouts
- Memory Banks and Memory Module Speed
- Parity Checking and Error-correcting Code (ECC)
- Installing RAM Upgrades, DIMM, RIMM, and SIMM Modules
- Troubleshooting Memory
- Memory Defect Isolation Procedures
- The System Logical Memory Layout

## PC Repair Module 4

### Hard Disk Drives

- The ATA/IDE Interface
- Magnetic Storage Principles
- Hard Disk Storage
- Hard Disk Drive Operation
- Removable and Optical Storage
- Physical Drive Installation and Configuration
- Hard Disk Installation Procedures
- Formatting
- Replacing an Existing Drive
- Hard Disk Drive Troubleshooting and Repair
- Installing an Optical Drive
- Internal Floppy Drive Installation

# Pc Repair Course Manual

**Jean Andrews**

## Pc Repair Course Manual:

HHSDC Training Center Course Catalog California Health & Human Services Agency Data Center,2000     **A+ Guide to Managing and Maintaining Your PC** Jean Andrews,2003 The A Guide to Managing and Maintaining Your PC Comprehensive Fourth Edition has been thoroughly updated for today s technology and is written by an instructor expressly for the classroom This text is designed to be the most complete step by step book available for learning the fundamentals of supporting and troubleshooting computer hardware and software This guide maps fully to the 2003 A Core Hardware and OS Technologies certification exams

**Upgrading and Repairing PCs** Scott Mueller,2003 This is the newest comprehensive update to the world s 1 guide to PC repair and maintenance World renowned PC hardware expert Scott Mueller has thoroughly updated his legendary Upgrading and Repairing PCs to reflect today s latest PC technologies and added a new DVD with more than two hours of digital video demonstrating PC maintenance and repair which can be watched on either their DVD equipped PCs or any DVD player Mueller presents updated coverage of every significant PC component processors motherboards memory the BIOS IDE and SCSI interfaces drives removable and optical storage video and audio hardware USB FireWire Internet connectivity LANs power supplies even PC cases This book also contains a detailed troubleshooting index designed to help readers rapidly diagnose more than 250 common PC hardware problems as well as an extensive vendor contact guide and a comprehensive PC technical glossary

**Lab Manual for A+ Guide to Software** Jean Andrews,2003-03 Designed to accompany the A Guide to Software this Lab Manual provides additional hands on practice need to succeed in industry and is an excellent resource to prepare for CompTIA s 2003 A OS Technologies certification exam

The 1984 Guide to the Evaluation of Educational Experiences in the Armed Services American Council on Education,1984

**A+ Guide to Managing and Maintaining Your PC** Andrews,2005-04 The Lab Manual for A GUIDE TO MANAGING AND MAINTAINING YOUR PC 5th Edition is a valuable tool designed to enhance your classroom experience Lab activities objectives materials lists step by step procedures illustrations review questions and more are all included

A+ Guide to Hardware Jean Andrews,2003 This book is designed to be the most thorough step by step resource available for learning the fundamentals of supporting and troubleshooting computer hardware It also maps fully to CompTIA s 2003 A Core Exam Back cover

**The 1980 Guide to the Evaluation of Educational Experiences in the Armed Services: Army** American Council on Education,1980     **Lab Manual for A+ Guide to Hardware** Andrews,2003 This Lab Manual is designed to accompany the A Guide to Hardware Second Edition and provides additional hands on practice need to succeed in industry This Lab Manual is also an excellent resource to use to prepare for CompTIA s 2003 A Core Hardware certification exam

**Guide to Managing and Maintaining Your PC, Introductory** Jean Andrews,1999-10 Whether the goal is to support a PC obtain A certification or train others to become PC repair technicians A Guide to Managing and Maintaining Your PC gets you there Jean Andrews brings clear conversational writing to technical topics to make tough topics easier no electronic

experience is assumed or required This new edition contains coverage on NT 4 Windows 98 and is current for today s technology     *Guide to the Evaluation of Educational Experiences in the Armed Services* American Council on Education,1978     **A+ Guide to Software** Jean Andrews,2003 This book is designed to be the most thorough step by step resource available for learning the fundamentals of supporting and troubleshooting operating systems It also maps fully to CompTIA s 2003 A OS Exam Back cover     Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office,1972     *PC Mag* ,1983-08 PCMag com is a leading authority on technology delivering Labs based independent reviews of the latest products and services Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology     *Guide to the Evaluation of Educational Experiences in the Armed Services: Coast Guard, Marine Corps, Navy, Department of Defense* American Council on Education,1978     Start Your Own Computer Repair Business Linda Rohrbough,Michael F. Hordeski,1995 Covering all aspects of setting up a home based operation this guide includes information on everything from computer parts and tools to pricing and advertising The bundled shareware disk includes a collection of diagnostic tools The first book on starting a PC repair business this guide could help launch many successful home business ventures during the 90s     *Cti Higher Edn* Cengage Learning Australia,Thomson Course Technology,2001-12     Mike Meyers' CompTIA A+ Guide to Managing and Troubleshooting PCs Lab Manual, Fourth Edition (Exams 220-801 & 220-802) Michael Meyers,2012-08-01 Bestselling CompTIA A author Mike Meyers provides 130 hands on step by step labs updated for the 2012 exams so you can practice the IT skills essential for your success With coverage of CompTIA A certification exams 220 801 and 220 802 Mike Meyers CompTIA A Guide to Managing and Troubleshooting PCs Lab Manual Fourth Edition contains more than 130 labs that challenge you to solve real world problems with key concepts Clear measurable lab objectives map to certification exam objectives ensuring direct correspondence to Mike Meyers CompTIA A Guide to Managing and Troubleshooting PCs Fourth Edition Lab solutions are only available to instructors and are not printed inside the book The Lab Manual also includes materials lists and lab set up instructions Step by step not click by click lab scenarios require you to think critically and Hint and Warning icons guide you through potentially tricky situations Post lab observation questions measure your understanding of lab results and the key term quiz helps to build your vocabulary     **PC Troubleshooting Pocket Guide** Jean Andrews,1999-11 This compact volume provides essential diagnostic and troubleshooting information needed in a portable size 4 by 7 inches The PC Troubleshooting Pocket Guide will help individuals diagnose computer problems with ease and speed     A+ Guide to Managing/Maintaining Your Pc Enhanced-Itt (Spl) Andrews,2006-07

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