

# 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

**Clemens Wendtner**



## **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     **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     **U.S. Government Books**,1987     *The 1980 Guide to the Evaluation of Educational Experiences in the Armed Services: Army* American Council on Education,1980     **EPA Publications Bibliography Quarterly Abstract Bulletin** United States. Environmental Protection Agency,1997-10     **Microsoft Windows 11 Training Manual Classroom in a Book** TeachUcomp,2022-04-26 Complete classroom training manual for Microsoft Windows 11 308 pages and 183 individual topics Includes practice exercises and keyboard shortcuts Professionally developed and sold all over the world these materials are provided in full color PDF format with not for profit reprinting rights and offer clear concise and easy to use instructions You will learn File Explorer how to adjust system and device settings desktop management creating documents Using Microsoft Edge and much more Topics Covered Windows Basics 1 About Windows 11 2 Sign in to Windows 11 with a Microsoft User Account 3 How to Use the Mouse in Windows 11 4 How to Use Touch Gestures in Windows 11 5 The Windows 11 Desktop 6 How to Use the Start Button in Windows 11 7 How to Use the Start Menu in Windows 11 8 How to Customize the Start Menu in Windows 11 9 How to Search in Windows 11 10 How to Use Universal App Windows in Windows 11 11 How to Use Snap Layouts in Windows 11 12 How to Resize a Desktop Window in Windows 11 13 How to Scroll a Window in Windows 11 14 How to Use Multiple Desktops in Windows 11 15 How to Shut Down Windows 11 16 How to Use the Microsoft Store in Windows 11 17 Sign in Options in Windows 11 18 How to Change Your PIN in Windows 11 19 How to Use Widgets in Windows 11 File Explorer 1 File Explorer in Windows 11 2 Navigating Folders 3 Changing Folder Views 4 Sorting Folder Contents 5 Selecting Files 6 Opening a File 7 Reopening a Frequently Opened Folder 8 Creating a New Folder 9 Renaming Files and Folders 10 Cutting Copying and Pasting Files and Folders 11 Burning a CD or DVD 12 Deleting Files 13 Managing Libraries in Windows 11 14 Managing the Computer and Drives in Windows 11 15 Quick Access in Windows 11 16 OneDrive Folders in File Explorer 17 Zip Folders in File Explorer 18 Unzip Files in File Explorer Windows 11 Settings 1 Accessing Settings in Windows 11 System Settings 1 Accessing the System Settings 2 Display Settings in Windows 11 3 Sound Settings in Windows 11 4 Notifications Settings in Windows 11 5 Focus Assist Settings in Windows 11 6 Power Battery Settings in Windows 11 7

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Protection Agency,1995      Popular Science ,1994-08 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better      **Dial/manual Central Office Repairer** United States. Department of the Army,1980      **Computerized Manufacturing Automation** ,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      *Resources in Education* ,1997      FY ... Guide to Training Courses ,1988

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web flange joints require proper tightening to avoid leakage bolt tightening sequence or torque sequence is defined in the torque tightening procedure flange joints are torqued tight with the help of a torque wrench manual or hydraulic the clamp load produced during tightening is higher than 75 of the fastener s proof load

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web jan 1 2017 the tightening sequence is generally following a star pattern or similar circular patterns if present are only used for the latest passes which ensures a better alignment of matching flanges and avoids local overloads in the gasket and rigid body motion in the joint bickford 1995

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web bolt torque is calculated for a flanged assembly using the following equation applied torque  $t \cdot k \cdot f \cdot d$  12 in fps unit where  $t$  torque in ft lb  $k$  dimensionless nut factor or tightening factor  $f$  axial force in pounds  $d$  nominal bolt diameter in inches in the metric system torque applied  $t \cdot k \cdot d \cdot f$  1000 where  $t$  torque in n m  $f$  bolt load in n

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web easy handling bolt numbering shall be done clockwise around the flange with the following sequence the table below shows the torque sequence for flanges with 4 to 32 bolts number of bolt studbolt tightening sequence to follow4 bolt flange1 3 2 4 8 bolt flange1 5 3 7 2 6 4 8 12 bolt flange1 7 4 10 2 8 5 11 3 9 6 12 16 bolt

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web for flanges with 12 or more bolts 1 st round 20 percent of final torque 2 nd round 40 percent of final torque 3 rd round 80 percent of final torque 4 th round 100 percent of final torque final round clockwise or counter clockwise around the flange please take note the above bolt tightening sequences are the most

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web number of bolt stud bolt tightening sequence to follow 4 bolt flange 1 3 2 4 8 bolt flange 1 5 3 7 2 6 4 8 12 bolt flange 1 7 4 10 2 8 5 11 3 9 6 12 16 bolt flange 1 9 5 13 3 11 7 15 2 10 6 14 4 12 8 16 20 bolt flange 1 11 6 16 3 13 8 18 5 15 10 20 2 12 7 17 4 14 9 19 24 bolt flange

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web ensure the bolt lengths allow for a minimum of 2 3 threads protruding beyond the top of the nut when tightened bolts must be tightened according to the below sequence options assemble bolts hand tight maximum 30 of final tightening torque as per below cross pattern sequences

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web step 1 liberally lubricate all load bearing surfaces including threads and flat washers then install and finger tighten all fasteners number the bolts flange according to the bolt torque sequence step 2 set the torque wrench to 1 3 of the target torque value and tighten in an order bolts 1 2 3 4 until all have been tightened

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