



CompTIA A+ Certified Computer Repair Training Program



CompTIA A+ Certification™
A CompTIA Certification Program

Computer Service Quality That You Can Trust

OVERVIEW

The CompTIA A+ Certification is internationally recognized as a validation of technical knowledge and skills required for an entry-level technician. In addition, it has a great customer satisfaction reputation. It serves as a credential for general practice of one's profession with the opportunity to acquire additional specialization.

CES Industries, Inc. is proud to be a Cornerstone Sponsor of the CompTIA A+ Certification Program, whose curriculum has been reviewed by CompTIA and is recognized as a CompTIA Authorized Quality Curriculum (CAQC), and has also met the necessary qualifications to be recognized by CompTIA as an Authorized Training Provider in good standing.

CES Industries, Inc. offers multiple A+ Certification Programs from complete classroom sets of curriculum and hardware to single user stations. The CompTIA A+ Certification Computer Repair Program covers computer architecture, computer literacy, basic computer repair level I, advanced computer repair level II, and non-destructive troubleshooting methods.

The Computer Repair Trainer is designed to survive in the classroom. It allows the instructor to insert various faults into the computer for the student to study, analyze, diagnose and repair. All components, digital circuits, and drives are completely secured by a Lexan® cover. This cover allows for full viewing without danger of components getting lost or being damaged. This program covers the hardware configuration and set-up, software configuration, software techniques, basic networking, peer-to-peer LAN, and client server. This system includes special Fault Insertion and Test Equipment Hardware and Software. The information and hands-on activities are interesting as well as educational for the beginner as well as the more advanced student.

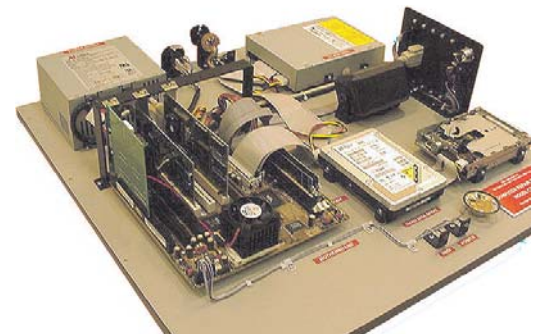
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Model CES 2924

CompTIA A+ Certified Computer Repair Lab
(24 Students)

Model CES 2912

CompTIA A+ Certified Computer Repair Lab
(12 Students)



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Call Toll Free: 1-800-CES-LABS, or visit our website at www.cesindustries.com

CompTIA A+ Certified Computer Repair Lab (24 Students)

Model CES 2924

A complete classroom curriculum and hardware for 24 students includes; 6 Computer Repair Training Systems which allow students to study, analyze, and diagnose various hardware problems. The lab also includes 12 complete computers that the students will assemble, configure and maintain. The Instructor's Pack consists of the necessary additional curriculum, software and hardware to complete the CompTIA A+ certification course.

Computer Repair Training System

- 6 Computer Repair Trainers (Lexan® trainer) each consisting of:
 - 1 Motherboard w/CPU & fan and built-in audio
 - 1 Hard drive
 - 1 128 DDR RAM
 - 1 SVGA AGP video card
 - 1 POST card
 - 1 CD-ROM drive & cable
 - 1 Speaker set
 - 1 3.5" floppy disk drive
 - 1 Monitor
 - 1 Mouse
 - 1 Keyboard
 - 1 Printer
 - 1 Accessories package



Assembly Parts Package

- 12 Motherboards w/CPU & fan and built-in audio
- 12 Hard drives
- 12 128 DDR RAMs
- 12 SVGA AGP video cards
- 12 CD-ROMs w/data cable
- 12 Speaker sets
- 12 3.5" floppy disk drives
- 12 Desktop cases w/power supply
- 12 Anti-static mats
- 24 Anti-static wrist straps
- 12 Tool kits
- 12 FAX modems
- 12 Network cards
- 12 Keyboards (ps-2)
- 12 Mouse w/mousepad (ps-2)



Instructor's Package A

- 1 HUB - 10BaseT
- 1 CD-ROM - Windows Server software
- 1 CD-ROM - Windows 2000 Software
- 10 CD-ROM - Windows XP-Home Software
- 15 CAT 5 cables w/connectors (6 ft)
- 1 Laser Printer
- 1 Telephone Line Simulator
- 1 Scanner (color)
- 1 Diagnostic Post Card
- 1 Manual: Instructor and CD
- 24 Manuals: Student (set of 7)
- 1 CD-ROM - CompTIA+ Certified Practice Exam
- 1 CD-ROM - CompTIA A+ Certified Power Point Presentation- Illustrations
- 1 CD-ROM - Power Point Presentation Lessons & Lecture Notes
- 1 CD-ROM - CompTIA A+ Certified Electronic Text Books
- 1 CompTIA A+ Certified video tapes
- 1 Sign: CompTIA A+ Certified Computer Repair Program
- 1 Computer Assembly DVD
- 1 DVD Updates (CompTIA 2003 Objectives)

CompTIA A+ Certified Computer Repair Lab (12 Students)

Model CES 2912

A complete classroom curriculum and hardware for 12 students includes; 3 Computer Repair Training Systems which allow students to study, analyze, and diagnose various hardware problems. The lab also includes 6 complete computers that the students will assemble, configure and maintain. The Instructor's Pack consists of the necessary additional curriculum, software and hardware to complete the CompTIA A+ certification course.

Computer Repair Training System

- 3 Computer Repair Trainers (Lexan trainer) each consisting of:
 - 1 Motherboard w/CPU & fan and built-in audio
 - 1 Hard drive
 - 1 128 DDR RAM
 - 1 SVGA AGP video card
 - 1 POST card
 - 1 CD-ROM drive & cable
 - 1 Speaker set
 - 1 3.5" floppy disk drive
 - 1 Monitor
 - 1 Mouse
 - 1 Keyboard
 - 1 Printer
 - 1 Accessories package



Assembly Parts Package

- 6 Motherboards w/CPU & fan and built-in audio
- 6 Hard drives
- 6 128 DDR RAMs
- 6 SVGA AGP video cards
- 6 CD-ROMs w/data cable
- 6 Speaker sets
- 6 3.5" floppy disk drives
- 6 Desktop cases w/power supply
- 6 Anti-static mats
- 6 Anti-static wrist straps
- 6 Tool kits
- 6 FAX modems
- 6 Network cards
- 6 Keyboards (ps-2)
- 6 Mouse w/mousepad (ps-2)



Instructor's Package A

- 1 HUB - 10BaseT
- 1 CD-ROM - Windows Server software
- 1 CD-ROM - Windows 2000 Software
- 10 CD-ROM - Windows XP-Home Software
- 15 CAT 5 cables w/connectors (6 ft)
- 1 Laser Printer
- 1 Telephone Line Simulator
- 1 Scanner (color)
- 1 Diagnostic Post Card
- 1 Manual: Instructor and CD
- 12 Manuals: Student (set of 7)
- 1 CD-ROM - CompTIA+ Certified Practice Exam
- 1 CD-ROM - CompTIA A+ Certified Power Point Presentation- Illustrations
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Manual: Computer Repair Program - Book I

I. SAFETY LESSON

II. INTRODUCTION TO COMPUTER REPAIR

- Lesson 1 Introduction to Computers
- Lesson 2 The Keyboard
- Lesson 3 The Monitor
- Lesson 4 The Power Supply
- Lesson 5 The Floppy Disk Drive
- Lesson 6 The Hard Disk Drive
- Lesson 7 The Motherboard
- Lesson 8 The CPU/BIOS/BUS
- Lesson 9 The RAM Memory
- Lesson 10 The Video Card
- Lesson 11 The Multimedia System
- Lesson 12 The Printer
- Lesson 13 Network Systems
- Lesson 14 Computer Viruses

Manual: Computer Repair Program - Book II

III. IDENTIFYING HARDWARE COMPONENTS

- Lesson 15 System Component - Power Supply
- Lesson 16 The Motherboard Architecture
- Lesson 17 Bus Slots and I/O Cards
- Lesson 18 System Resources
- Lesson 19 System Resources - Physical Memory
- Lesson 20 System Resources - The Floppy Drive
- Lesson 21 System Resources - Logical Memory
- Lesson 22 System Resources - Input/Output Addresses
- Lesson 23 System Resources - Parallel Port
- Lesson 24 System Resources - Serial Input/Output Ports
- Lesson 25 System Resources - DMA
- Lesson 26 System Resources - Video
- Lesson 27 System Resources - Hard Disk Drive
- Lesson 28 Input Output Devices - Mouse
- Lesson 29 Input Output Devices - Keyboard
- Lesson 30 System Hardware - Monitor
- Lesson 31 Multimedia Devices - Audio Hardware
- Lesson 32 Multimedia Devices - CD-ROM Drives
- Lesson 33 System Hardware - Modem

Manual: Computer Repair Program - Book III

IV. SYSTEM CONSTRUCTION

- Lesson 34 Assembling the Computer
- Lesson 35 Configuring the Assembled Computer
- Lesson 36 Installing the Operating System
- Appendix A: AMIBIOS Setup
- Appendix B: Award BIOS CMOS Setup Utility
- Appendix C: The BIOS Survival Guide
- Appendix D: Assembling a Pentium II Computer
- Appendix E: Windows Comparison Guide

Manual: Computer Repair Program - Book IV

V. OPERATING SYSTEMS - DOS

- Lesson 37 DOS - Basics
- Lesson 38 DOS - Configuring your System
- Lesson 39 DOS - Optimizing your System

VI. OPERATING SYSTEMS - WINDOWS 2000

- Lesson 40 Windows 2000 - Introduction
- Lesson 41 Windows 2000 - Configuration
- Lesson 42 Windows 2000 - System Mgmt, File Systems
- Lesson 43 Windows 2000 - System Mgmt, Multimedia
- Lesson 44 Windows 2000 - Networking
- Lesson 45 Windows 2000 - Troubleshooting

Manual: Computer Repair Program - Book V

VII. OPERATING SYSTEMS - WINDOWS XP

- Lesson 46 Windows XP - Introduction
- Lesson 47 Windows XP - Multilingual
- Lesson 48 Windows XP - Managing Desktop
- Lesson 49 Windows XP - Managing Files & Folders
- Lesson 50 Windows XP - Supporting Mobile Users
- Lesson 51 Windows XP - Configuring Remote Desktop
- Lesson 52 Windows XP - Managing Devices
- Lesson 53 Windows XP - Managing Digital Media
- Lesson 54 Windows XP - Enabling Printing & Faxing
- Lesson 55 Windows XP - Disk Management
- Lesson 56 Windows XP - Working with File Systems
- Lesson 57 Windows XP - Backing up & Restoring Data
- Lesson 58 Windows XP - Understanding Logon & Authentication
- Lesson 59 Windows XP - Implementing TCP/IP Security
- Lesson 60 Windows XP - Implementing Security for Mobile Computers
- Lesson 61 Windows XP - Wireless Networking
- Lesson 62 Windows XP - Configuring Telephony & Conferencing
- Lesson 63 Windows XP - Troubleshooting Disks & File Systems

Manual: Computer Repair Program - Book VI

VIII. TROUBLESHOOTING THE SYSTEM

- Lesson 64 Troubleshooting - Preventative Maintenance
- Lesson 65 Introduction to Troubleshooting
- Lesson 66 Troubleshooting - The Power Supply
- Lesson 67 Troubleshooting - The Video Card
- Lesson 68 Troubleshooting - The Hard Drive
- Lesson 69 Troubleshooting - The Floppy Drive
- Lesson 70 Troubleshooting - Serial Ports
- Lesson 71 Troubleshooting - Parallel Ports
- Lesson 72 Troubleshooting - Multimedia Devices - Sound Card
- Lesson 73 Troubleshooting - Multimedia Devices - CD-ROM
- Lesson 74 Troubleshooting - The Motherboard - CPU Failures
- Lesson 75 Troubleshooting - The Motherboard - Memory Failures
- Lesson 76 Troubleshooting - The Motherboard - DMA Failures
- Lesson 77 Troubleshooting - The Motherboard - IRQ Failures
- Lesson 78 Troubleshooting - The Motherboard - I/O Failures

IX. PERIPHERAL REPAIR

- Lesson 79 Troubleshooting - The Keyboard
- Lesson 80 Computer Monitors - Terms and Definitions
- Lesson 81 Monitor Basics
- Lesson 82 Troubleshooting - The Monitor
- Lesson 83 Flat Panel Displays
- Lesson 84 Printer Repair - Dot Matrix
- Lesson 85 Printer Repair - Inkjet
- Lesson 86 Printer Repair - Laser
- Lesson 87 Troubleshooting PDA's
- Lesson 88 Troubleshooting Scanners

Manual: Computer Repair Program - Book VII

X. NETWORK

- Lesson 89 Introduction to Networks
- Lesson 90 Planning the Network
- Lesson 91 Cabling the Network
- Lesson 92 Network Hardware - Adapter Card
- Lesson 93 Network Architecture
- Lesson 94 Network Operating Systems - A Comparison
- Lesson 95 Internet Protocols and Services
- Lesson 96 Troubleshooting - Network Hardware
- Lesson 97 Troubleshooting - Shared Printers
- Lesson 98 Cabling a Bus Topology Network
- Lesson 99 Cabling a Star Topology Network
- Lesson 100 Network Server Installation





CompTIA A+ Certified Computer Repair Training Program

19 Reasons

why CES Industries is your choice for a CompTIA A+ Certified Computer Repair Program

1. Our course prepares you to take the examination by retaining the information that you learn for future use, not simply to memorize a question pool to pass the exam.
2. Our program incorporates the latest objective changes made on the examination on November 26, 2003 and meets the requirements for CompTIA Authorized Quality Curriculum (CAQC).
3. Our program is used around the world with complete confidence and an excellent student-passing ratio. The national average for first time test takers is only 10%. The CES average for first time test takers is 78.6%.
4. It is used exclusively in New York City and all around the world as the program of choice for the new school-to-work computer repair program.
5. Our 800 Hotline support is available for anyone who is teaching the program. 1-800-CES-LABS
6. Periodic, FREE, in-house and off-site training for instructors, covering the latest technology, exam material, curriculum updates and industry trends.
7. The only computer repair program that does not require the instructor to be computer literate or be certified to teach the program.
8. A fully duplicatable program that allows the instructor to repeat the program successfully, year after year.
9. Non-destructive, instructor insertable faults to help the students learn troubleshooting skills.
10. CD-ROM based question and answer tests to help the student prepare for the examination with a multimedia computer based training program.
11. CES Industries, Inc. curriculum has been reviewed by CompTIA and recognized as a CompTIA Authorized Quality Curriculum (CAQC).
12. We are an authorized Prometric Sylvan Testing Center. Students can take the exam at our facility. This offers us the opportunity to stay current with testing trends.
13. CES Industries is a member of CompTIA. We are part of the guiding force behind the A+ testing and certification process.
14. A CES Newsletter with informative information, latest tips, contests, and prizes.
15. Live lecture video tapes for test review purposes.
16. Curriculum guide and lecture notes for instructors.
17. CES Industries is a CompTIA A+ Authorized Training provider.
18. CompTIA A+ Certified technicians have authored our curriculum material.
19. Partnership with CompTIA & Jobs + Program so students may purchase vouchers at \$65 per section or \$130 per test.

The following is a list of some corporate sponsors of A+ Certification.

Aerotek - Data Service Group
American Institute
American Power
Apple Computer, Inc.
AST Research
AT&T Global Information Systems
Aurora/Century Computer
Banctec Service Corporation
Compaq Computer Corporation
Computer Reseller News
CompuCom Systems, Inc.
CompUSA
Computer Curriculum Corporation
Conner Peripherals
Data Train Institute
Digital Equipment Corporation
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Epson America, Inc.
Exide Electronics Group, Inc.
GE Capital Technology Service
GE Information
Hayes Microcomputer Products, Inc.
Hewlett-Packard Company
IBM Education & Training
IBM PC Company, N. A.
InaCom Corporation
Ingram Micro Inc.
Intel Corporation, Inc.
Lexmark
Lotus Development
MicroAge Inc.
Microsoft Corporation
OKIDATA
Packard Bell Electronics
PC Parts Express
Permond Solutions Group Inc.
PC Week (Ziff-Davis Publishing)
Service News
SHL Technical Service
Systems & Support Management
Tandy Services/Computer City
TechForce
Technology Service Solutions
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