

Computer Servicing and A+ Certification Training



Introduce Your Students to Personal Computer Hardware

Computer Troubleshooting Lab

Introduce students to the hardware that makes up a personal computer by disassembling and assembling one. Students will be able to do basic repairs, upgrade and exchange components. The high powered, high storage, open architecture Computer (assembled) can do real graphics, CAD and multimedia work for you.

Lessons cover:

1. **PC Set Up and Test:** Interconnecting the main units, applying power and booting up, initial software tests, verification of operation.
2. **PC Disassembly and Identification of Major Components:** Disconnecting the major components, opening the cabinet, identify the main components, removal of cables / plug-in cards / disk drives / motherboard / power supply, review of motherboard / hard drives / power supply.
3. **PC Re-Assembly:** Reinstallation of power supply/ motherboard/disk drives/cables/plug-in cards /cabinet, reconnecting peripherals, testing.
4. **PC Configuration** with CMOS set-up
5. **Windows Tutorial**
6. **Basic Troubleshooting:** RAM, video, power supply.
7. **Upgrading a Computer:** RAM (SIMMs and DIMMs), hard disk, audio card, CD-ROM drive.
8. **Printer Installation, Testing and Servicing**
9. **Modem Installation and Testing**
10. Use of **on-line services** & internet (internet access required).

841997\$1,795



19" LCD Display Included!

Lab Includes:

- Fully Loaded Computer with 19" LCD Display, Hard Drive, DVD Burner/ Player, Windows, Stereo Speakers, Software Bundle, Backup Utilities, Keyboard and Mouse
- Color Inkjet Printer
- Printer Cable
- Computer Repair Tool Kit
- Computer Cleaning Kit
- A+ Certification Book
- Other Related Books
- [10] Blank IBM Disks
- Instruction Module
- Workstation Sign

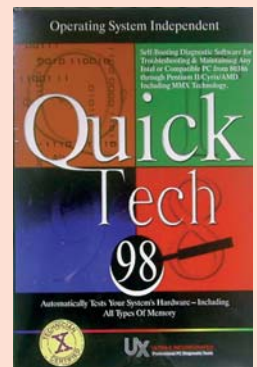
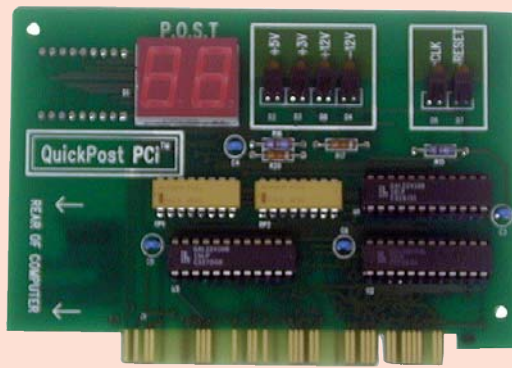
For Advanced Students

Computer Troubleshooting Mini Lab

Advanced students can learn how to troubleshoot computer hardware problems. Includes QuickPost PC (a diagnostic card for monitoring POST results) and the QuickTech Software Interface (used to quickly troubleshoot hardware problems).

841062 Mini Lab, IBM\$595

To learn more about Computer Basics, check out the 8088 Trainer at www.kelvin.com



Intro to Computer Network Wiring

Lab includes:

- Wood Base
- 4-Port Network Switch
- Single Port Wall Jack (External, RJ-45, Cat-5e)
- Wall Plate Jack Box (1.89" Depth)
- 2 Hole RJ-45 Faceplate
- [2] RJ-45 Panel Jacks (Cat-5e)
- [10] RJ-45 Plugs
- RJ-45 Crimper
- Punch Down Tool
- Universal Stripping Tool
- 100 ft. of Cat-5e Solid Cable
- Instruction Manual

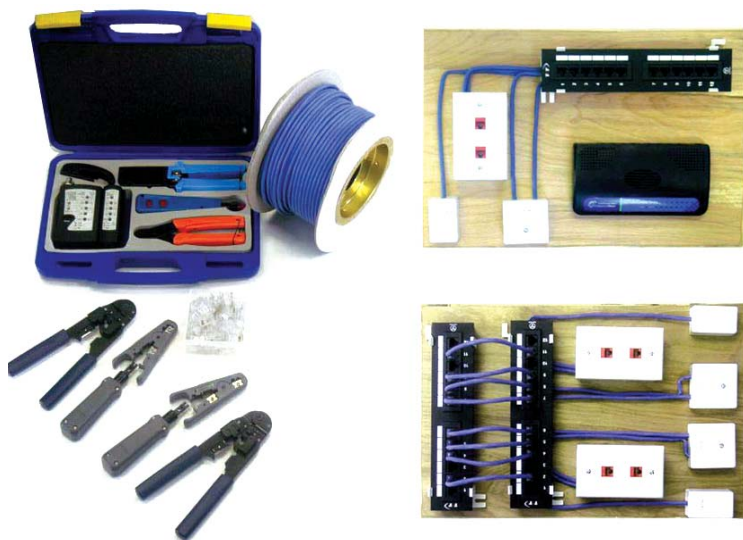


This lab is designed to familiarize the students with network wiring, components and applications. The proper use of tools, terminations, installation, diagnostic and troubleshooting procedures are emphasized.

841717 Introduction to Computer Network Wiring Lab\$245



Learn How to Wire a Computer Network



Advanced Computer Network Wiring

This wiring lab is designed to familiarize your students with network wiring, components and applications by interconnecting two separate network panels. Emphasizes the proper use of tools, patch panels, terminations, installation, diagnostic and troubleshooting procedures.

Lab Includes:

- [2] Wood Bases
- [3] 2 Hole RJ-45 Faceplates
- [3] RJ-45 Panel Jacks (Cat-5e)
- [2] RJ-45 Crimpers
- [2] Punch Down Tools
- [2] Universal Stripping Tools
- 250 ft. of Cat-5e Solid Cable
- Instruction Manual
- [3] Wall Plate Jack Boxes (1.89" D)
- [100] RJ-45 Plugs
- [3] 16-Port Network Switch
- [3] 12-Port Patch Panels
- [3] Single Port Wall Jacks (External, RJ-45, Cat-5e)
- [3] Dual Port Wall Jacks (External, RJ-45, Cat-5e)
- [3] Wall Plate Jack Boxes (1.89" D)
- Instructor's Networking Tool Kit with Cable Tester

841714 Advanced Computer Network Wiring Lab\$1,595

Computer Network Wiring

Lab is designed to familiarize students with network wiring, components and applications. Explores proper use of tools, patch panels, terminations, installation, diagnostic and troubleshooting procedures are emphasized.

Lab Includes:

- Wood Base
- 8-Port Network Switch
- 12-Port Patch Panel
- Single Port Wall Jack (External, RJ-45, Cat-5e)
- Dual Port Wall Jack (External, RJ-45, Cat-5e)
- 2 Hole RJ-45 Faceplate
- Wall Plate Jack Box (1.89" Depth)
- Cable Tester
- [50] RJ-45 Plugs
- RJ-45 Crimper
- [2] RJ-45 Panel Jacks (Cat-5e)
- Punch Down Tool
- Universal Stripping Tool
- 100 ft. of Cat-5e Solid Cable
- Instruction Manual

841715 Computer Network Wiring Lab\$795

Computer Network Wiring Practice Kit

This kit is designed to familiarize students with the proper use of tools and techniques for terminating network patch cables. They will assemble Standard and Crossover patch cables as used in any local area networks.

Lab includes: [50] RJ-45 Plugs, RJ-45 Crimper, Wire Stripping Tool, 100ft. of CAT-5e Solid Cable and Instruction manual.

841718 Practice Kit\$99
520331 Cable Tester (Sold Separately)\$55

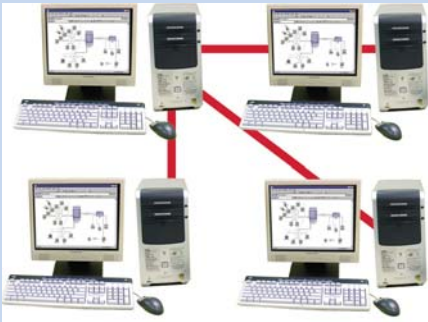


Cable Tester Sold Separately

NETWORKING

Learn How to Hook Up and Run Computer Networks

Requires at least 2 computers for networking.



Windows 2003 Networking Lab with 2 Computers

Students learn how to set up and run an NT workstation with this lab. They will be installing the Win 2003 Server on the server; Connecting stations to the hub; Making cables; Installing a printer and printing to printer; Setting up users; and Basic network troubleshooting.

Additional computers are available. Computer specifications are constantly changing to reflect industry. Ideal for high school and college students.

- This Lab Includes:**
- [2] Multimedia Computers with Monitors (one for server and one for workstation)
 - Win 2003 Server for 5 Users
 - 5 NIC Network Cards
 - Network Hub
 - Cables
 - Connectors
 - Crimp Tool
 - Computer Tool Kit
 - Printer
 - Related Books
 - Manuals
 - Workstation Sign

841253 Includes [2] Computers**\$4,995**

Economy Computer Add to Your Network
900025 IBM PC with LCD Monitor.....**\$995**

Point-to-Point Networking Labs

Learn how to hook up, connect and run a network in your class. Includes required materials and books.

Wired Networking Labs

841021 Requires Computer**\$495**

841709 w/PC, 19" LCD Display, Win XP ..**\$1,995**

Wireless Networking Lab

841399 Requires Computer**\$495**

841710 w/PC, 19" LCD Display, Win XP ..**\$1,995**

Economy Computer Add to Your Network
900025 IBM PC with LCD Monitor.....**\$995**

NETWORKING



These Labs Include a Computer With a 19" LCD Display!

Install and Configure a HTTP, FTP and PHP Enabled Servers

Activities provide students with a step-by-step guide for installing and configuring a HTTP, FTP and PHP enabled server.

The Internet Information Services (IIS) included with the Windows XP Professional package is a reliable, powerful and a scalable web server. When configured, it will provide concurrent connections for up to 10 users when hosting one domain. When an FTP server is installed, the system becomes remotely accessible for uploading and downloading files. With the PHP extensions installed, students will be able to utilize this scripting language option.

The activities in the advance product demonstrate the step by step procedures for setting up and configuring a Multi Domain web server which can accept unlimited concurrent users.

Introduction to Web Servers Lab

- Lab includes:**
- Computer (at least 2.6GHz, 160 Gb HD, 512MB Ram, 17" LCD Display)
 - Internet Information Services (IIS) Software
 - FTP Server Application Software
 - PHP Scripting Language Extension
 - Step-By Step Installation Instruction Book
 - Workstation Sign
- 841707 Grades 8+**\$2,995**

Advanced Web Server Lab

- Lab includes:**
- Computer (at least 2.6GHz, 160 Gb HD, 512MB Ram, 19" LCD Display)
 - Windows Apache Web Server Software
 - Anti-Virus Protection
 - FTP Server Application Software
 - Simple DNS Plus Software
 - PHP Scripting Language Extension
 - E-mail Server • MySQL
 - Step-By Step Installation Instructions Book
 - Workstation Sign
- 841708 Grades 9+**\$3,995**

SECURITY-DVR DIGITAL VIDEO



Security w/DVR Digital Video Lab

- Lab includes:**
- Computer with 19" LCD Display and a DVD-RW Drive
 - Interface Board Video Frame Recorder (8 or 16 Channels), Installed and Tested
 - WIN based DVR Software
 - Wiring
 - 500 ft of RGB 59 Cable
 - BNC connectors
 - Basic Tool Kit
 - Color Dome Camera
 - [2] Color Bullet Cameras
 - Color Bullet Infrared Camera

Introduce modern security technology with hands-on installation and operation of a security system and software. Students will become familiar with connections, setup and wiring and learn how to set up a DVR client for local or remote access as well as alarm.

The Security System consists of four parts:

- Digital Video Recorder (DVR):** Watch live or recorded videos from anywhere. The remote client is connected through high speed internet (DSL or cable) or regular phone lines. DVR's consists of a Video Server and the DVR Client. Connect several cameras to a single recording unit.
- Video Server:** This device captures and stores video on a local hard drive or a network storage device. To minimize storage requirements, software can be set-up to store data only when motion is detected in the video frame. This technique can also be used to trigger an alarm.
- Video Camera:** Consider b/w vs. color, high resolution vs. regular, indoor vs. outdoor, motion, infrared low light assist, size and remote control.
- Control Room:** Monitor on location or remotely via the internet.

Security Lab with 120Gb HD and Hardware for 8 Channels

841683**\$2,995**

841684 #841683 plus 4 Cameras**\$3,995**

Security Lab w/ 250Gb HD, Hardware for 16 Channels & 4 Cameras

841685**\$4,995**

Color Cameras

851329 Dome Type**\$195**

851330 Bullet Type**\$195**

851331 Infrared (Day/Night) Bullet Type....**\$295**

851332 Weatherproof Infrared**\$495**

Network Service Tool Kit

A service and installation tool kit for networks, modems, and telephones. Includes quality, heavy-duty tools and a tester that will handle telephone cables with RJ-11 and RJ-45 connectors and coaxial cable with F or BNC connectors.

- This Tool Kit includes:**
- Multi-Network Cable Tester
 - Cable Tester Terminator
 - AC Receptacle Tester
 - Telephone Line Analyzer
 - Coaxial Cable Stripper
 - Modular Crimping Tool
 - Hex-Type Crimping Tool
 - 11 pc. Screwdriver Bit Set
 - Punch Down Tool/66 Blade
 - Round Cable Cutter
 - Parts Box
 - Carrying Case

282382 Network Service Tool Kit.....\$159



11-Piece Computer Service Tool Kit

All contained in a black vinyl zippered case. 2-year manufacturer's warranty on all tools.

- This Tool Kit includes:**
- 3/16" Nut Driver
 - 1/4" Nut Driver
 - Driver Handle, Fits all Bits
 - Reversible Screwdriver Bits T10 & T15
 - Reversible Screwdriver Bits 3/16" & 1/4"
 - Reversible Screwdriver Bits, #1 & #2 Phillips
 - Tweezers
 - IC Inserter 14-16 Pin
 - IC Puller
 - 1/8" Flat Screwdriver
 - #0 Phillips Screwdriver
 - 3-Prong Parts Retriever

490059 11 pc. Computer Service Tool Kit.....\$19.95



12-Piece Pro Computer Repair Tool Kit

All contained in a black vinyl zippered case. 2-year manufacturer's warranty on all tools.

- This Tool Kit includes:**
- #0 Phillips Screwdriver
 - #1 Phillips Screwdriver
 - 3/16" Slotted Screwdriver
 - 3/16" Nut driver
 - 1/4" Nut driver
 - #10 Hex key
 - #15 Hex Key
 - Prong Extractor
 - Tweezer
 - Extractor/Inserter Handle

530158 12 pc. Pro Computer Repair Tool Set.....\$46.95



Deluxe 26-Piece Computer Service Tool Kit

All contained in a black vinyl zippered case.

- This Tool Kit includes:**
- IC Puller
 - IC Inserter 14-16 Pin
 - 3-Prong Parts Retriever
 - Spare Parts Tube
 - Solder Ease Kit
 - Soldering Iron Stand (wire form)
 - Desoldering Pump
 - Deluxe 25W Soldering Iron
 - Diagonal Cutters
 - 5" Needle Nose Pliers
 - Solder Tube
 - 3/16" Slotted Screwdriver
 - #1 Phillips Screwdriver
 - Tweezers
 - Premium Wire Stripper
 - 11 pc. Screwdriver Bit Set (3 Nut Drivers, 2 Slotted, 2 Phillips, & 3 Star Bits)
 - 1/8" Slotted Screwdriver
 - #0 Phillips Screwdriver

490058 Deluxe 26 pc. Computer Service Tool Kit.....\$57.95



Multi-Network Cable Tester

This tester is a convenient instrument for testing different unshielded wiring schemes telephone cables with RJ-11 and RJ-45 connectors and coax cables (F and BNC connectors). Cables can be tested before and after they are installed. Mapping Function. Cable Identification (straight or cross-pinned). Pair Identification (straight or cross-pinned). Open or Short Testing. F to BNC Connectors Included. Low Battery Indicator. Auto Power-Off Function (30s.). Includes 9V Battery and Soft Vinyl Zippered Case.

520304\$89.95 or \$87.95 ea./3+



PC Cleaning Kit

Kit contains: CD-ROM drive cleaner and fluid, swabs and fluid to clean your mouse and monitor, with a mini-vacuum to clean the keyboard, specially formulated wipes to clean the monitor and a case to keep everything together.

900032\$49.95

