



Information Technology Program

Model CES 3500

The Future of IT

IT (information technology) is a term that encompasses all forms of technology used to create, store, exchange, and use information in its various forms (business data, voice conversations, graphic images, multimedia presentations, and other forms, including those not yet conceived). It's a convenient term for including both telephony and computer technology in the same word. It is the technology that is driving what has often been called "the information revolution."

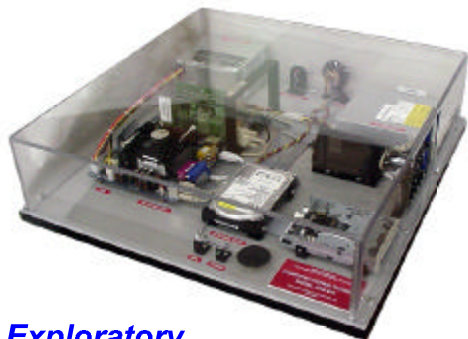
The CES model 3500 IT Program consists of 17 individual workstations. Students will progress through these workstations, each building a solid foundation for the next workstation. It is the integration of all these technologies that shape our future. It is the overall understanding of all of these technologies that creates an IT Specialist.

CES Industries, Inc. is in the business of designing, manufacturing, and providing technical training equipment in the overall field of Electronics, Avionics and Computer Instructional equipment.

Our customers include Technical, Vocational, High Schools, Colleges, Industry, Government, and the Military.

CES Ed-Lab Training Equipment includes the course materials as well as the equipment to perform laboratory experiments that are pre-tested and guaranteed to work. We can provide the training equipment plus all the test instruments, laboratory furniture, tools, and projects for a completely installed, turn-key, classroom including instructor training service.

CES Industries, Inc. has been in the business of supporting education for over 30 years with thousands of installations world wide. Our teaching materials are unique in their ruggedness and motivational learning methods.



**Exploratory
Computer Repair Station**



STATIONS

- Electronics Station
- Digital Electronics Station
- Cable & Wireless Communications Station
- Exploratory Computer Repair Station
- Identifying Computer Hardware Station
- Computer Assembly Station
- Computer Operating Systems Station
- Advanced Computer Troubleshooting Station
- Introduction to Networking Station
- Advanced Networking Station
- A+ Certification Preparation Station
- Network+ Certification Preparation Station
- i-Net+ Preparation Station
- Security+ Certification Preparation Station
- Web Design Software Station
- MOS Certification Preparation Station
- Introduction to Programming Station



A+ Certification™
A CompTIA Certification Program

Computer Service Quality That You Can Trust

Network +™
A CompTIA Certification Program

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Electronics Station

This station is the starting point for all electronics, and is outstanding for instructors who have not taught electronics before. *The Ed-Lab 500 Modern Electronics Trainer* is a complete rugged system for teaching the introduction to both electricity and electronics subjects in an easy to use and easy to understand manner. Complete curriculum supplied.

Electronics Station



Digital Electronics Station

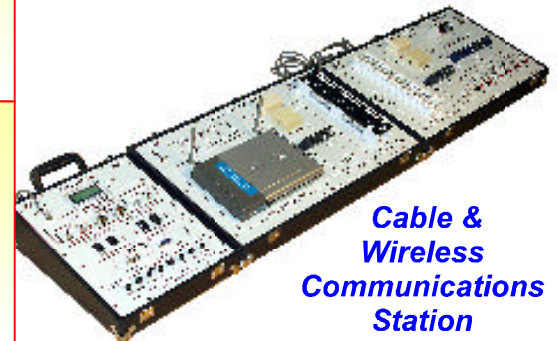
This station is the starting point for all digital electronics, and is outstanding for instructors who have not taught electronics before. *The Ed-Lab 750 Modern Digital Laboratory* is a complete rugged system for teaching the introduction to both electricity and electronics subjects in an easy to use and easy to understand manner. Complete curriculum supplied.



Digital Electronics Station

Cable & Wireless Communications Station

The network and cabling trainer *Model CES 800 Cable and Wireless Training System* is a complete package for training students in PC network topologies, associated copper cabling, and fiber optic technologies. The trainer covers the overview of network topologies and then investigates the basics of cabling with emphasis on standards, preparing cable ends, understanding wireless networks, etc. Complete curriculum supplied.



Cable & Wireless Communications Station

Exploratory Computer Repair Station (Qty-3)

The *Model CES 975 Computer Repair Trainer* is designed to provide the basic knowledge and understanding of the personal computer, its functions, operations, components and software. Only then can we begin to work on the skills and procedures necessary to service, repair, maintain and troubleshoot the personal computer of today. Complete curriculum supplied.

Identifying Computer Hardware Station

This station gives students the knowledge needed to work with actual computer components. Students will learn the precautions and safety features needed to work on and assemble computers. Studies include configurations, system resources, system hardware and the overall architecture used in today's computers. Complete curriculum supplied.

Computer Assembly Station

This station contains all the necessary parts and supplies needed to assemble a modern computer. Students will learn to build and configure a modern computer. The students will then load the operating system and have a fully functional computer when completing this station. All necessary curriculum required for this station is supplied.



Exploratory Computer Repair Station

Computer Operating Systems Station

At this station students will be introduced to the inner workings of the operating system, and will learn DOS, Windows 9X and Windows 2000. This includes introduction and installation, configuration, system management, multimedia, troubleshooting, file systems, etc. All necessary curriculum required for this station is supplied.

Advanced Computer Troubleshooting Station

This station begins with preventive computer maintenance and takes the student all the way to advanced troubleshooting. Students will study troubleshooting individual computer components, including monitors, printers, peripherals, motherboards, and I/O conflicts. All necessary curriculum required for this station is supplied.

Introduction to Networking Station

Students will begin understanding what a network is and how its power can be used. Students will learn to plan a network installation, cable the network and how network operating systems work. Topics include internet protocols, troubleshooting, printing through a network and more. All necessary curriculum required for this station is supplied.

Computer Assembly Station



Advanced Networking Station



Advanced Networking Station

This station will take networking to the next level with an in depth look at networking. Includes hands-on activities and troubleshooting scenarios. Students have access to multiple network operating systems and network diagnostic tools. This includes router with firewall, fiber optic to ethernet converter, etc. All necessary curriculum required for this station is supplied.

A+ Certification Preparation Station

This is an on-line course complimented by classroom activities and lessons. Students will prepare themselves for the CompTIA A+ Certification Exam. This includes video tapes, review notes, CD-ROM based practice exams, Power Point presentations. This station is a culmination that ties together previous computer repair stations. All necessary curriculum required for this station is supplied.

Network+ Certification Preparation Station

This internet based training station will prepare students for the CompTIA Network+ Exam utilizing a strong base knowledge from previous networking stations. This is a very powerful preparation tool for any student working on a Network+ Certification. This station is a culmination that ties together previous networking stations. All necessary curriculum required for this station is supplied.

i-Net+ Preparation Station

i-Net+ is a baseline of technical knowledge designed for entry level internet and e-commerce technical professionals. This internet based program includes internet basics and clients, development, internet security and business concepts. Some of the topics covered are Internet Basics, Development, Business Concepts, etc. All necessary curriculum required for this station is supplied.

CompTIA Security+™ Certification

The CompTIA Security+ certification tests for security knowledge mastery of an individual with two years on-the-job networking experience, with emphasis on security. The exam covers industry-wide topics, including communication security, infrastructure security, cryptography, access control, authentication, external attack and operational and organization security.

Web Design Software Station

This self-paced station teaches students to manage a Website, use themes, tables, frames and assorted scripting languages. This program takes students from the design stage to publishing. Students utilize internet based training while working with Microsoft Front Page. This training program is the beginning step towards a "Certified Internet Webmaster" Certification. All necessary curriculum required for this station is supplied.

MOS Certification Preparation Station

This internet based training program prepares the students for a "Microsoft Office Specialist" Certification. Microsoft Office is one of the most widely office suites used in today's growing business environment. Students work with Microsoft Word, Excel and Power Point programs, while utilizing this on-line course. All necessary curriculum and software required for this station is supplied.

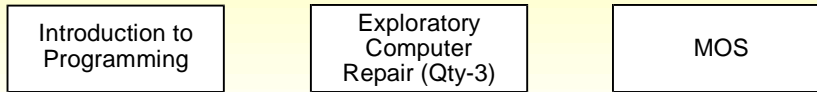
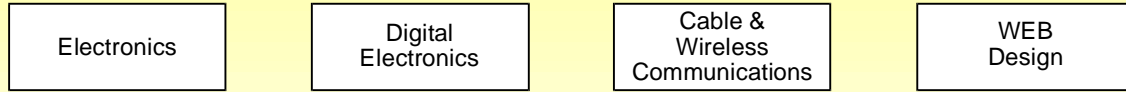
Introduction to Programming Station

This internet based training station covers programming basics and is a requirement for the Microsoft® MCSD Certification. Students will study several programming languages including Visual Basic.net, Visual Basic, etc. Includes pre and post testing and interactive lab activities. All necessary curriculum required for this station is supplied.

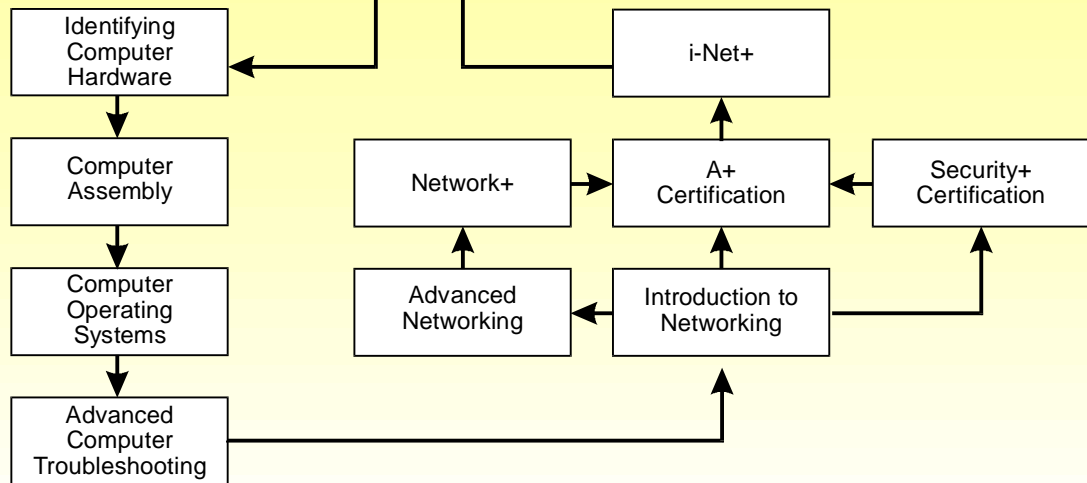


TYPICAL CURRICULUM FLOW CHART

Flexible Sequence Stations



Sequentially Ordered Stations



Information Technology Program Typical Hourly Plan

STATIONS	Total Available Hours	Typical 1-Year Program
Electronics Station	45	15
Digital Electronics Station	25	15
Cable & Wireless Communications Station	90	15
Exploratory Computer Repair Station	15	15
WEB Design Station	30	15
Introduction to Programming Station	40	15
Identifying Computer Hardware Station	50	15
Computer Assembly Station	25	15
Computer Operating System Station	50	15
Advanced Computer Troubleshooting Station	30	15
Introduction to Networking Station	20	15
MOS Certification Preparation Station	80	15
Advanced Networking Station	70	
A+ Certification Preparation Station	70	
Network+ Certification Preparation Station	30	
I-Net+ Certification Preparation Station	40	
Security+ Certification Preparation Station	90	
TOTAL	800 Hours	180 Hours

