

Electronics Training Program

Electronics Technology Certification Program

Gibson Sales Systems electronics Technology Certificate Program (ETCP) was created to train people who want a future in electronics as technicians or engineers. It is the fastest and least expensive way to learn practical electronics theory and hands-on skills to be able to be competitive in the job market today. With its blend of reading assignments, interactive software, videos, pictorials, step-by-step instructions, write-up of each experiment, study guides, fill-in worksheets, hands-on solderless labs and soldering kits it will help give any student the necessary practice and skills toward being certified as an electronics technician.



Earn these Career Certificates and put them on your resume!

ETCP-01 Career Certificate #1

“Basic Electronics Concepts and Components”

The student will acquire knowledge about electronics technology, components, and schematic drawings that will be needed to perform solderless electronics assembly and troubleshooting. They will learn to inventory electronic components, read the resistor color code, decipher capacitor values, and use electronics schematics to build useful devices. Lots of hands-on makes this very exciting to the beginning electronics student.

ETCP-02 Career Certificate #2

“Electronics Circuit Assembly and Schematics”

The student will learn to recognize the important electronic components, their schematic symbols and how to write circuits on a solderless circuit board using only the schematic diagrams. They will build many useful devices including a burglar alarm, electronic organ, audio generator, power supply, automatic night light, and many more.

ETCP-03 Career Certificate #3

“DC Electronics with Multimeter Use”

Your training continues in this course learning the use of Multimeters. Many hands-on experiments will help you learn and remember the basic laws of DC. You will use the multimeter to verify Ohm's Law and Kirchhoff's Laws of voltage and current. After you complete this level, measuring voltage, current, and resistance will be easy. You will have learned to measure continuity to find faulty electronics components and devices.

ETCP-04 Career Certificate #4

“AC Electronics and Solid State Devices”

By building and analyzing a power supply with its transformer (inductor) rectification (diodes) and filtering (capacitors) circuits you will learn the basics of AC electronics. You will be taught the fundamentals of good soldering and get practice doing it.

ETCP-04 Career Certificate #5

“Digital Electronics Circuits and Op Amps”

Digital electronics is the foundation of the computer world. Learn step-by-step the fundamentals of digital logic and devices in use today. Digital devices are packaged in a variety of ways and are divided into special ‘families’. Learn about ‘clock’ circuits, multivibrators, timers, flip-flops, counting circuits, sequence generators, and the binary numbering system. Build memory circuits and learn the theory and use the Operational Amplifiers preparing you for the world of microprocessor circuits and devices.

ETCP-06 Career Certificate #6

“Use of 5 Basic Electronics Test Instruments”

Learn better how to use the multimeters (Digital & Analog), Function Generators, RF Generators and Oscilloscopes. This course is a must for all electronics technicians who want to be the best at their craft. Learn how to calculate voltages, Peak to Peak and RMS. Make accurate measurements and calculations with the oscilloscope.

ETCP-07 Career Certificate #7

“Electronics Troubleshooting and Repair”

Now, after having completed the first 6 courses of the program you are ready to become an expert electronics troubleshooter. Using the stages of a transistorized radio receiver, you will use test equipment to analyze and troubleshoot electronics. You will use hands-on and simulation software. After you complete this level you are ready for a career in the ‘real world’ of electronics troubleshooting.

ETCP-08 Career Certificate #8

“Robotic Assembly and Programming”

Building instructions for all 8 models included with the RCS-6! This ideal robot construction set allows you to build a totally custom set of robots, one at a time. You control it with your computer (PC). Make it do what ever you want to do; golf, dance, pick things up and place them where you want, even make a cup of hot chocolate for you! Comes with control software, case, parts, PC interface, power supply and Curriculum Binder.

ETCP-09 Career Certificate #9

“Microprocessor Assembly and Programming”

Starting from ‘scratch’, you build a complete micro computer system. Our course teaches you to write into RAMs, ROMs and to run an Intel 8085 microprocessor. You will learn about input/output ports, computer timers, how to build your own keyboard. Includes a micro computer in a handy carrying case.

ETCP-10 Career Certificate #10

“PLC Logic and Programming”

A PLC is a controller which is pre-programmed to operate machinery. They are everywhere in our high-tech world. To understand and use these devices is a highly paid skill. PLCs are used in robotics, replacing timers, replacing counters, replacing Ladder Logic. You will simulate different processes and then wire devices to perform the real test. This is an amazing automation experience. PLCs control most industrial processes as well as the rides at Disneyland, automated package labeling, rice cake machines, french fry machines, central vacuum systems, fatigues tests on products, coal mining machines, automated storage and retrieval. Operate these PLCs over the internet to control robots and much more.

Gibson Sales Systems Experience

At Gibson Sales Systems, with our website www.GSSTechEd.com, we are in the business of Electronics Education, we offer a complete set of labs, kits, manuals, and practical opportunities for students to gain knowledge and experience in the field of electronics. The difference is that we focus both on the learning experience of the student, and on other needs of the teachers - even the inexperienced ones. Let's face it, not everyone has an electronics expert at their school to start and maintain an electronics program. Our materials make teaching electronics rewarding for both experienced and new teachers.

In addition to quality, all of the kits offered in this catalog have been chosen because of their good training guides and support materials. Once a student builds a kit, and reads the learning guide, they should be able to explain everything about how the project works. We do not manufacture kits that leave out the important elements of detailed explanations and theory of operations.

With these kits, labs and courses, anyone can learn electronics. You don't need an electronics background. Training guides included with each kit we manufacture are beautifully illustrated and easy to understand. Students can follow along step by step easily, building on one electronics concept to the next.

Not only do we provide top of the line educational products, but our technical support and customer service is unsurpassed. If you are a teacher, you can call us about anything! We can help you create an outline for a class, assist in special learning situations or simply give you technical support. With over 30 years of experience in electronics education, our theories and classroom techniques are ones that work.

We continue to researching, looking for the best materials and methods of teaching electronics. Our catalog will continue to grow with new products to meet needs of electronic educators nationwide. Call us with any special requests or ideas. If you don't see it in our catalog, ask for it.

**For more products, see
www.GSSTechED.com**

**Gibson Sales System is your source for
LOW-COST electronic kits and labs that
emphasize the LEARNING experience.**

What makes Gibson Sales Systems the best electronics educational tool for your dollar?

• **Low Cost** is important when education materials dollars are scarce. We are a company in our industry that offers these services including low-cost kits and labs. It is hard to find all this teaching support in our low price range.

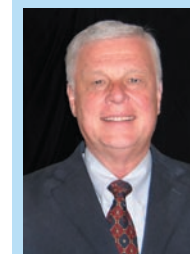
• **Project Learning Manuals** are well illustrated, shown step-by-step instructions; give detailed theory of operation and student fill-in exercises.

• **Labs are Reusable** and help stretch your budget. They can be adapted to any situation where you need a learning experience in electronics programs, from one period to several weeks.

• **800# Technical Support** for teachers available Monday through Friday 8AM to 5PM PST and by email 24 hours a day.

• **FREE kit repair and tech support for teachers** is our policy. If you ever get a kit that we manufacture that doesn't work, send it back. We'll fix it, tell you how to troubleshoot the problem, and get you on your way again.

• **24 hour convenient website** to review products and place orders educational materials at your convenience.



“Thousands of teachers across the nation are currently using these materials. If you need ideas for your program, call me. With over 30 years in electronics education, I'll be happy to share my experience with you.”

-Gary Gibson, Educator and Author

1 GSS Tech Ed

Technology you can *build* on!

Call 1-800-314-3843 - Toll-Free Fax 1-800-913-8310

Email gary@gibsonsalesystems.com

Mail School Purchase Orders to: 31500 Grape Street Suite 3-364, Lake Elsinore, CA 92532

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