

ELECTRONICS TECHNOLOGY – BASIC DIGITAL TECHNICIAN – CERTIFICATE OF ACHIEVEMENT

Top Code:

0934.00

The curriculum contained in this certificate provides a student with the necessary skills to seek entry-level employment as an electronics technician working on digital electronics systems. Students completing this certificate program will have the basic skills needed to work with electronic digital and microprocessor based equipment. In addition to the ability to use common electronics test equipment such as oscilloscopes and digital multimeters, they will have an understanding of microcontroller hardware and software and the ability to prototype, test, and debug simple digital and microcontroller based systems. Students will also have the skills required to design printed circuit boards, solder and perform basic assembly of electronic systems.

A Certificate of Achievement is awarded upon completion of all required courses with a grade of C or better.

Program Outcomes

- Communicate technical information, assess data, analyze information and write professional reports.
- Synthesize, debug and analyze microcontroller based programs.
- Prototype, build and test basic digital circuits.
- Use common tools in the trade to troubleshoot, analyze and repair electronic equipment.

Requirements for the Certificate of Achievement

Code	Title	Units
ELTN 115	PRINTED CIRCUIT & ELECTRONIC HARDWARE DESIGN	3
ELTN 117	INTRODUCTION TO MICROCONTROLLERS AND EMBEDDED DESIGN	3
ELTN 130	INTRODUCTION TO ELECTRONICS	3
ELTN 132	DIGITAL AND CONTROL ELECTRONICS	4
Total Units		13