

ELECTRONICS TECHNOLOGY - LEVEL 2

VOC EL76	FCC General Radiotelephone Operator License Preparation
VOC CNT56	Computer Networks

Certificate of Completion #41570

This program covers the fundamentals of Electronics Technology plus additional coursework in other areas of specialty. It is composed of the same coursework from the Electronics Technology - Level 1 certificate plus additional electives chosen from other electronics courses within the Electronics Department. This certificate allows students the flexibility to combine Electronics courses to meet individual goals in a specialty of their choosing. This Level 2 certificate will prepare students with the requisite knowledge for subsequent Electronics certificates and degrees.

Program Learning Outcomes

- Students will demonstrate proper use of electronic test equipment and associate measurement results with circuit behaviors in the laboratory.
- Students will be able to demonstrate a connection between higher level coursework and that of the fundamental coursework in AC, DC and digital electronics.
- Students will communicate, both verbally and in writing, knowledge of electrical concepts and their application to the observed behaviors of circuits and systems.
- Students will apply knowledge of electronic principles to the areas of communications, industrial electronics, or microcontrollers.

Review Student Learning Outcomes (SLOs) (<http://www.mtsac.edu/instruction/outcomes/sloinfo.html>) for this program.

Required Courses

Course Prefix	Course Name	Units
VOC EL50A	Electronic Circuits - Direct Current (DC)	
VOC EL50B	Electronic Circuits (AC)	
VOC EL56	Digital Electronics	

Recommended Electives

Course Prefix	Course Name	Units
Students may choose from any of the courses in List A or List B to fulfill the 4 courses of required electives		

List A:

VOC EL11	Technical Applications in Microcomputers	
VOC EL12	Computer Simulation and Troubleshooting	
VOC EL51	Semiconductor Devices and Circuits	
VOC EL53	Communications Systems	
VOC EL54A	Industrial Electronics	
VOC EL54B	Industrial Electronic Systems	
VOC EL55	Microwave Communications	
VOC EL61	Electronic Assembly and Fabrication	
VOC EL74	Microcontroller Systems	
VOC TCH60	Customer Relations for the Technician	

List B:

VOC EL10	Introduction to Mechatronics	
VOC EL62	Advanced Surface Mount Assembly and Rework	