

# VOC: ELECTRONIC ASSEMBLY AND FABRICATION

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## #24162

This certificate prepares students to enter the electronics field as assembly and fabrication technicians. The program provides a series of courses to meet the needs of industry in assembly, soldering/de-soldering skills and fabrication for both through-hole and surface mount devices (SMD), including skills for various types of cabling and connections.

### Program Learning Outcomes

- Students will design, fabricate, and populate a through-hole circuit board.

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) or VOC EST5 Electrical Fundamentals for Cable Installations	
VOC EL61	Electronic Assembly and Fabrication	
VOC EL62	Advanced Surface Mount Assembly and Rework	

Back to Vocational Programs (<http://catalog.mtsac.edu/programs/noncredit-programs/programsaz/vocational-programs>)