

# 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

VOC EL50A Electronic Circuits (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

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