

# VOC: ELECTRONIC SYSTEMS TECHNOLOGY - LEVEL 1

---

## #24363

This certificate program provides job skills in the areas of low voltage cable and wire installations used in the telephone industry, computer networks (business and home), home theatre, home automation, and home security systems (integrated home systems). Typical job titles in these areas are data or cable technician, low-voltage wiring technician, home theatre installer, consumer electronics service technician and security system installer. Level 1 certification develops skills in electrical fundamentals, fabrication techniques, cabling and wiring standards for voice, video and data, and basic computer skills in word processing, spreadsheets, database and the Internet.

### Program Learning Outcomes

- Students will demonstrate technical competence by constructing a complete wired telecommunications network using electronic test equipment and hand tools.
- Students will be employed or seeking employment in the field or a related field.

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

### Required Courses

VOC EST50 Electrical Fundamentals for Cable Installations

VOC EST52 Fabrication Techniques for Cable Installations

VOC EST54 Cable and Wiring Standards

VOC EL11 Technical Applications in Microcomputers  
or VOC CSB1 Microcomputer Applications

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