

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

Course Prefix	Course Name	Units
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	

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