

# Technical and Vocational Programs

## C 35 13 0 | Electrical Systems Technology, Level I – Certificate

### CONCENTRATION OVERVIEW

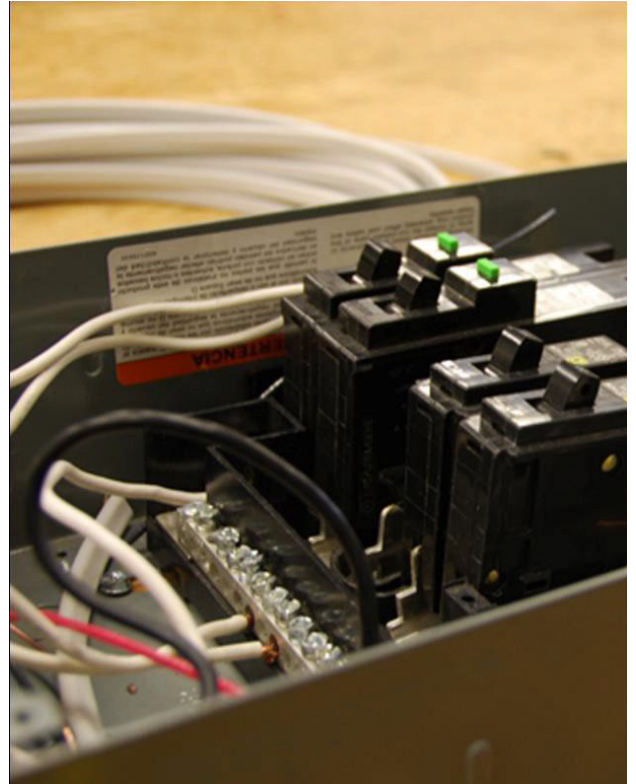
The Electrical Systems Technology curriculum is designed to provide training for persons interested in the installation and maintenance of electrical/electronic systems found in residential, facilities. Course work, most of which is hands-on, will include such topics as AC/DC theory, basic wiring practices, applications of the National Electric Code, and other subjects as local needs require.

Upon completion of this concentration, graduates will be able to qualify for a variety of jobs in the electrical/electronics field as an on-the-job trainee or apprentice assisting in the layout, installation, and maintenance of electrical/electronic systems.

### Student Learning Outcomes – Upon completion of the program, students will:

1. Plan and install residential and circuits per the National Electrical Code.
2. Interpret and apply the provisions of the National Electrical Code.

**Partnership: N/A**



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Certificate Course Number and Title	Pre-Requisites and Co-Requisites	Class Hours	Lab Hours	Clinical Hours	Total Contact Hours	Total Credit Hours
ELC 112 DC/AC Electricity	Pre-Requisites: None Co-Requisites: None	3	6		9	5
ELC 113 Residential Wiring	Pre-Requisites: None Co-Requisites: None	2	6		8	4
ELC 125 Diagrams & Schematics	Pre-Requisites: None Co-Requisites: None	1	2		3	2
ELC 230 Wind and Power Hydro Systems	Pre-Requisites: None Co-Requisites: None	2	2		4	3
ELC 118 National Electrical Code	Pre-Requisites: None	1	2		3	2
<b>TOTAL SEMESTER HOURS</b>		<b>9</b>	<b>18</b>		<b>27</b>	<b>16</b>
<b>TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE</b>						<b>16</b>