

Update #: 27  
Title: **Course changes to Electrical Technology CSC for GMCR**  
Type: The CSC contained ELE 193 Studies in Electrical Engineering Technology and ETR 293 Studies in Programmable Controllers. In accordance with Section 5.3.03 of Educational Programs –VCCS: “a “Studies in” course is intended as an experimental course to test its viability as a permanent offering. An experimental course may be offered twice, after which the course must be approved under the appropriate discipline according to VCCS processes for adding new courses to the Master Course File.” In order to conform to VCCS policy, ELE 121 replaces ELE 193 and ELE 239 replaces ETR 293. In addition, ELE 122 replaces ELE 150.  
Effective: Spring 2017

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## ELECTRICAL TECHNOLOGY FOR KEURIG-GREEN MOUNTAIN ROASTING COMPANY

**Program:** Electrical Technology  
**Award:** Career Studies Certificate  
**Plan Code:** 221-981-15  
**Length:** 11 credit hours, 2 semesters  
The program is designed for Keurig-Green Mountain Roasting Company employees **only**.  
**Program Head:** David Lorenz

**Purpose:** This program is designed for employees of Keurig Green Mountain Roasting Company. Students will be given specialized electrical technology training that will support production operations at Keurig-Green Mountain Roasting Company.

**Occupational Objectives:** Upon completion of the Electricity Certificate Program graduates will possess the knowledge and skills required for entry into the fields of maintenance electrician, maintenance technician, robot operator, and robotic service technician.

**Student Learning Outcomes:** Upon successful completion of the Robotics Certificate Program graduates will be able to:

- Demonstrate the knowledge of basic circuit design, current flow, and power dissipation.
- Identify a variety of schematic symbols and how to interpret schematic drawings.
- Explain single phase and three phase motor operation, maintenance and troubleshooting procedures.
- Create, design, and troubleshoot a variety of robotic programs.
- Utilize a variety of test equipment to measure voltage, current, resistance and power.
- Demonstrate the knowledge of science, technology, engineering and math to solve technological problems.

**Admission Requirements:** General admission to the college is required and the students that are selected under the discretion of Keurig-Green Mountain Roasting Company must place out of MTE 3.

**Program Requirements:** The curriculum in the Electrical Technology Certificate for Keurig-Green Mountain Roasting Company combines instruction in the areas required for competence as an entry level employee in industry, government, and other organizations. Candidates for the Electrical Technology Certificate for Keurig-Green Mountain Roasting Company must successfully complete all required courses and earn a minimum grade of "C" in all ELE courses.

<b>Electrical Technology (221-981-15)</b>		
ELE 121	Electrical Circuits I	3
ELE 122	Electrical Circuits II	3
ELE 216	Industrial Electricity	3
ELE 239	Programmable Controllers	2
	<b>Total Credits</b>	<b>11</b>