

# SKILLS CERTIFICATE - INDUSTRIAL ELECTRICITY 1

---

This Skills Certificate program prepares students to take the PMMI Mechatronics Certifications Tests in the area of Industrial Electricity 1.

## Certificate Outcomes

Students completing this certificate will:

- Apply theory of electricity and its application in various technical areas and use basic electronic measurement instruments for circuit troubleshooting.
- Evaluate DC series and parallel circuits in component selections and circuit design and be able to demonstrate AC circuitry through simple experiments with test equipment.
- Apply relationships and mathematical calculations of voltage, ohms, amperes, three-phase voltage, and current to analyze basic electrical/electronic circuits.

Skills Certificates provide training for entry level positions or career advancement and are designed to prepare students to take state, national and/or industry-recognized certifications or licensing exams. Skills certificates are awarded upon completion of coursework and marked on a student's transcripts at the end of the semester (Student are unable to declare intent to complete a skills certificate.) Skills Certificates are not eligible for Financial Aid.

To earn a skills certificate, students must:

1. Maintain a minimum cumulative GPA of 2.0
2. Have no financial or library obligation to the college

## Certificate Requirements

ELM 110	Electrical/Electronic Circuits	4
ELM 127	Introduction to AC Controls	3
ELM 129	Electric Motors and Drives	3
Total Units		10

Course	Title	Units
<b>1st semester</b>		
ELM 110	Electrical/Electronic Circuits	4
ELM 127	Introduction to AC Controls	3
ELM 129	Electric Motors and Drives	3
Semester Total		10
Total Units		10