



### **Industrial Electricity and Electronics Technology Mission Statement**

The Industrial Electricity and Electronics Technology department of Southwestern Illinois College will provide students in electronics technology or industrial electricity with the fundamental technical skills and knowledge required for gainful employment in an entry level position in the electrical and electronics career field. In addition, the department is committed to delivering a high quality program by assessing student learning through several methods (objective exams, practical exams, and professional certifications) and reevaluating its instructional methods and strategies as necessary. Graduates gain the knowledge necessary to meet the ever changing needs of the industries in our district.

### **Educational Goals**

1. Demonstrate competency in use of test equipment and tools commonly utilized by technicians in the career field
2. Practice proper electrical safety procedures
3. Interpret diagrams, drawings, and technical manuals to install, maintain, and repair electrical and electronic circuits and systems
4. Define and use terminology applicable to the career field
5. Calculate electrical and electronic circuit parameters
6. Design, construct, and test basic electrical and electronic circuits
7. Utilize computers and software specific to the electrical/electronic field

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