

## **Construction Electrical Specialist Mission Statement:**

The mission of the Construction Electrical Specialist Program is to provide the local construction industry with well-trained, productive and educated crafts persons who, in turn, add value and economy to the collective job site. By continuing evaluation and research, this program will insure the students maintain pace with emerging technology and its application. This program encourages individuals to robustly strive for excellence and to contribute to the well being of the local and community.

### **Educational Goals**

1. The Construction Electrical Specialist Program at Southwestern Illinois College will graduate students that can:
  1. Perform on the jobsite with improved safety procedures resulting in reduction of lost-time accidents.
  2. Know industry terminology associated with the construction electrician job, and how to access specifications and code information related to the jobs and materials encountered on a construction site.
  3. Know how to perform calculations and computations for resolving electrical problems.
  4. Demonstrate the ability to safely and competently use hand and powered tools and equipment in the execution of job assignments.
  5. Interpret blueprints, wiring diagrams, and specification sheets per job requirements.
  6. Demonstrate competency in the various skills that are utilized in the construction electrician trade.
  7. Know how to design, install, and maintain various wiring and control systems.
  8. Know how the numerous electrical theories, laws, codes, and standards govern design, installation, and maintenance of electrical systems.
  9. Apply standard procedures for material hoisting, transportation, and trenching and shoring.
  10. Identify the electrical, mechanical, and control components used in construction electrical industry.
  11. Know how to conduct testing and diagnostics of systems and components.
  12. Explain the roles of safety devices and interlocks.

*Submitted by: Jim Moore*

*Division: Allied Health, Public Services, and Industrial Technology*

*Date Reviewed: 05/18/2004*

*Status: 05/18/2004*