MISSION STATEMENT AND STUDENT LEARNING OUTCOMES for
Construction Electrical Specialist

Review Year: 2024

Division:	Discipline/Program/Department:	Contact Person(s):
Technical Education	Construction Electrical Specialist	Moore, Jim

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 tur, 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.

Program/Discipline Curriculum Map

I = Introduce: Student is first exposed to the concept/idea and is requested to apply the concept in a limited scope.
E = Emphasize: Student applies concept(s) in varying/multiple situations of greater complexity than when initially introduced.
R = Reinforce: Student may be expected to understand the concept upon taking the course and utilizes the concept in conjunction with other concepts/ideas to solve problems.

Program/Discipline Outcomes	***Course Prefix and Number***														
Graduates of this program/discipline shall be able to:	IEW 141	IEW 142	IEW 145	IEW 157	IEW 241	IEW 242	IEW 243	IEW 244	IEW 245	IEW 251	IEW 252	IEW 257			
Perform on the jobsite with improved safety procedures resulting in reduction of lost-time accidents.	I	E	E	E	R	R	R	R	R	R	R	R			
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.	I	E	E	E	R	R	R	R	R	R	R	R			
Know how to perform calculations and computations for resolving electrical problems.	I	E	E	E	R	R	R	R	R	R	R	R			
Demonstrate the ability to safely and competently use hand and powered tools and equipment in the execution of job assignments.	I	E	E	E	R	R	R	R	R	R	R	R			
Interpret blueprints, wiring diagrams, and specification sheets per job requirements.	I	E	E	E	R	R	R	R	R	R	R	R			
Demonstrate competency in the various skills that are utilized in the construction electrician trade.	I	E	E	E	R	R	R	R	R	R	R	R			
Know how to design, install, and maintain various wiring and control systems.	I	E	E	E	R	R	R	R	R	R	R	R			
Know how the numerous electrical theories, laws, codes, and standards govern design, installation, and maintenance of electrical systems.	I	E	E	E	R	R	R	R	R	R	R	R			
Apply standard procedures for material hoisting, transportation, and trenching and shoring.	I	E	E	E	R	R	R	R	R	R	R	R			
Identify the electrical, mechanical, and control components used in construction electrical industry.	I	E	E	E	R	R	R	R	R	R	R	R			
Know how to conduct testing and diagnostics of systems and components.	I	E	E	E	R	R	R	R	R	R	R	R			
Explain the roles of safety devices and interlocks.	I	E	E	E	R	R	R	R	R	R	R	R			

Map Comments:

Core Competency Map

Core Competencies	***Course Prefix and Number***														
	IEW 141	IEW 142	IEW 145	IEW 157	IEW 241	IEW 242	IEW 243	IEW 244	IEW 245	IEW 251	IEW 252	IEW 257			
Communication Skills															
1. Computer Literacy															
2. Oral Communications	X														
3. Writing															
Reasoning Skills															
4. Critical Thinking											X				
5. Quantitative Literacy											X				
Citizenship															
6. Personal Accountability											X				
7. Civic And Social Accountability															