

INST-2680-NEC AND INDUSTRIAL WIRING 4 CREDITS

SYLLABUS

CATALOG DESCRIPTION

This course is designed to develop a student's understanding of the national Electric code in a hands-on manner. The student will learn how to install wiring of industrial electrical equipment with hands on wiring practice and theory. The student will be able to perform industrial electrical task while complying with the electrical safety, codes, and standards.

Prerequisites: INST1550

Semester Offered: Spring/Fall

Common Student Learning Outcomes

Upon successful completion of San Juan College programs and degrees, the student will demonstrate competency in...

BROAD AND SPECIALIZED LEARNING

Students will actively and independently acquire, apply, and adapt skills and knowledge with an awareness of global contexts.

CRITICAL THINKING

Students will think analytically and creatively to explore ideas, make connections, draw conclusions and solve problems.

CULTURAL AND CIVIC ENGAGEMENT

Students will act purposefully, reflectively, and ethically in diverse and complex environments.

EFFECTIVE COMMUNICATION

Students will exchange ideas and information with clarity in multiple contexts.

INFORMATION LITERACY

Students will be able to recognize when information is needed and have the ability to locate, evaluate, and use it effectively.

INTEGRATING TECHNOLOGIES

Students will demonstrate fluency in the application and use of technologies in multiple contexts.

Student work from this class may be randomly selected and used anonymously for assessment of course, program, and/or institutional learning outcomes. For more information, please refer to the Dean of the appropriate School.

Course Learning Outcomes

Upon successful completion of the course, the student will be able to...

1. Understand and navigate the national Electrical code;
2. Understand the concepts of industrial wiring practice

3. Properly handle tools and test equipment used in the electrical trade
4. Read schematics, electrical plans and diagrams used in electrical wiring.
5. Install and wire electrical devices in compliance with the National Electrical Code.