COURSE INFORMATION FORM

DISCIPLINE INTE
COURSE TITLE Industrial Electrical Safety

CR.HR 2 LECT HR. 1.75 LAB HR. 0.5 CLIN/INTERN HR. CLOCK HR.

CATALOG DESCRIPTION

This course will introduce the student to electrical safety rules and procedures in the industrial arena. The student will learn the NFPA 70E requirements, meter safety and how to safely work around electrical circuitry in the workplace. Student will complete CPR certification.

PREREQUISITES

None

EXPECTED STUDENT OUTCOMES IN THE COURSE (ESO)

Upon completion of this course, the student will be able to:

1. Describe and apply safe electrical practices in the workplace.
2. Describe the necessary equipment and safety considerations to prevent electrical shock in the workplace.
3. Describe precautions to be taken around electrical circuits.
4. Safely operate standard test equipment such as digital multimeters, ammeters and megohmeters.
5. Demonstrate how to use the NFPA 70E procedures in the workplace.
6. Demonstrate the process of Lockout/Tagout as a safe work practice.
7. Demonstrate how to use Personal Protective Equipment (PPE).
8. Complete CPR certification.
9. Recognize the signs of and administer first aid to victims of electric shock.
GENERAL EDUCATION OUTCOMES (ESO)
Specify which general education outcomes, if any, are substantially addressed by the course. Numbers in parentheses identify the Expected Student Outcomes linked to the specific General Education Outcome.

<table>
<thead>
<tr>
<th>Outcomes</th>
<th>ESO</th>
</tr>
</thead>
</table>

PROGRAM-LEVEL OUTCOMES

CAREER AND TECHNICAL EDUCATION PROGRAM OUTCOMES
Specify which Career and Technical program outcomes, if any, are substantially addressed by the course by completing the “Career and Technical Education template” to show the relationship between course and program outcomes to assessment measures.

CLASS-LEVEL ASSESSMENT MEASURES
Student accomplishment of expected student outcomes may be assessed using the following measures. (Identify which measures are used to assess which outcomes.)

1. Written examinations (1 – 9)
2. Practical demonstrations (3 – 5)
3. Skills test (6-9)
Individual instructors may order this outline as fits the needs of their individual courses. In addition, they may place more emphasis on some areas than on others. What is assured is that this particular list is covered in the course. Other topics may be added to a course as the instructor sees fit, and as time and interest allow. An *asterisk can be used to mark an item as optional.

I. Electrical Safety
II. NFPA 70E
   A. PPE
   B. Work area requirements
III. Safety Equipment
   A. Protective mats
   B. Short circuits and ground faults
   C. Lockout/Tagout
IV. Meter Safety
   A. Multimeter
   B. Ammeters
   C. Megohmeters
V. First Aid application
VI. CPR certification