COURSE OUTLINE

DIVISION: Workforce Development Division

COURSE: ELE-1220; Electrical Safety

Date: Summer 2014

Credit Hours: 1

Prerequisite(s): None

Delivery Method:

- Lecture 1 Contact Hours (1 contact = 1 credit hour)
- Seminar 0 Contact Hours (1 contact = 1 credit hour)
- Lab 0 Contact Hours (2 contact = 1 credit hour)
- Clinical 0 Contact Hours (3 contact = 1 credit hour)
- Online
- Blended

Offered: Fall

IAI Equivalent – Only for Transfer Courses go to http://www.itransfer.org:

CATALOG DESCRIPTION:

This course will introduce students to the safety required in industry to day. The course will focus on NEC regulations, local codes where they apply and 70 E regulations.
GENERAL EDUCATION GOALS ADDRESSED

[See the last page of this form for more information.]

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

[Choose those goals that apply to this course.]

☐ To apply analytical and problem solving skills to personal, social and professional issues and situations.
☐ To communicate orally and in writing, socially and interpersonally.
☐ To develop an awareness of the contributions made to civilization by the diverse cultures of the world.
☐ To understand and use contemporary technology effectively and to understand its impact on the individual and society.
☐ To work and study effectively both individually and in collaboration with others.
☐ To understand what it means to act ethically and responsibly as an individual in one’s career and as a member of society.
☑ To develop and maintain a healthy lifestyle physically, mentally, and spiritually.
☐ To appreciate the ongoing values of learning, self-improvement, and career planning.

EXPECTED LEARNING OUTCOMES AND RELATED COMPETENCIES:

[Outcomes related to course specific goals.]

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

Competency 1   OSHA 10 Hr. compliance
   Competency 1.1 Evaluate OSHA safety problem
   Competency 1.2 Identify which OSHA safety code applies
   Competency 1.3 Document OSHA violations by applied code violation

Competency 2   NFPA 70 E Compliance
   Competency 2.1 Evaluate 70 E safety problems
   Competency 2.2 Identify which 70 E safety code applies
   Competency 2.3 Document 70 E violations by applied code violation

Competency 3   Local code compliance
   Competency 3.1 Evaluate local safety problem
   Competency 3.2 Identify which local safety code applies
   Competency 3.3 Document local violation by applied code

COURSE TOPICS AND CONTENT REQUIREMENTS:

OSHA General Industry 10 hr. Safety
OSHA Equipment safety
OSHA Electrical safety
NFPA 70E General safety
NFPA 70E Equipment safety
NFPA 70E Electrical safety
Local General Safety
Local Equipment safety
Local Electrical safety
INSTRUCTIONAL METHODS:
Lecture

INSTRUCTIONAL MATERIALS:
OSHA 10 Hr. Gen Ind,
NEC code book
Interpreting the national electrical code (most current)
Isbn-13-978-1-4283-2373-5
NFPA 70 E Standard for electrical safety in the work place

STUDENT REQUIREMENTS AND METHODS OF EVALUATION:

<table>
<thead>
<tr>
<th>Percentage Range</th>
<th>Grade</th>
</tr>
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<tbody>
<tr>
<td>90% and up</td>
<td>A</td>
</tr>
<tr>
<td>80% - 89%</td>
<td>B</td>
</tr>
<tr>
<td>70% - 79%</td>
<td>C</td>
</tr>
<tr>
<td>60% - 69%</td>
<td>D</td>
</tr>
<tr>
<td>00% - 59%</td>
<td>F</td>
</tr>
</tbody>
</table>

Quizzes 10%
Labs 30%
Tests 20%
Midterm 20%
Final 20%

Some quizzes and test may be performance based

OTHER REFERENCES
none
## Course Competency/Assessment Methods Matrix

### ELE-1220; Electrical Safety

For each competency/outcome place an “X” below the method of assessment to be used.

<table>
<thead>
<tr>
<th>Assessment of Student Learning</th>
<th>Assessment Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1. Evaluate OSHA safety problem</td>
<td>D</td>
</tr>
<tr>
<td>1.2. Identify which OSHA safety code applies</td>
<td>X</td>
</tr>
<tr>
<td>1.3. Document OSHA violation by applied code violation.</td>
<td>X</td>
</tr>
<tr>
<td>2.1. Evaluate 70 E safety problems</td>
<td>X</td>
</tr>
<tr>
<td>2.2. Identify which 70 E safety code applies</td>
<td>X</td>
</tr>
<tr>
<td>2.3. Document 70 E violations by applied code violation.</td>
<td>X</td>
</tr>
<tr>
<td>3.1. Evaluate local safety problem</td>
<td>X</td>
</tr>
<tr>
<td>3.2. Identify which local safety code applies</td>
<td>X</td>
</tr>
<tr>
<td>3.3. Document local violation by applied code violation.</td>
<td>X</td>
</tr>
</tbody>
</table>