

ILLINOIS VALLEY COMMUNITY COLLEGE



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** **Spring** **Summer**

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:

90% and up A

80% - 89% B

70% - 79% C

60% - 69% D

00% - 59% F

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		Assessment Options																														
For each competency/outcome place an "X" below the method of assessment to be used.	Assessment of Student Learning	Article Review	Case Studies	Group Projects	Lab Work	Oral Presentations	Pre-Post Tests	Quizzes	Written Exams	Artifact Self Reflection of Growth	Capstone Projects	Comprehensive Written Exit Exam	Course Embedded Questions	Multi-Media Projects	Observation	Writing Samples	Portfolio Evaluation	Real World Projects	Reflective Journals	Applied Application (skills) Test	Oral Exit Interviews	Accreditation Reviews/Reports	Advisory Council Feedback	Employer Surveys	Graduate Surveys	Internship/Practicum /Site Supervisor Evaluation	Licensing Exam	In Class Feedback	Simulation	Interview	Written Report	Assignment
	Direct/ Indirect	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	I	I	I	I	D	D						
1.1. Evaluate OSHA safety problem									X																							X
1.2. Identify which OSHA safety code applies									X																							X
1.3. Document OSHA violation by applied code violation.							X	X	X																							X
2.1. Evaluate 70 E safety problems									X																							X
2.2. Identify which 70 E safety code applies									X																							X
2.3. Document 70 E violations by applied code violation.							X	X	X																							X
3.1. Evaluate local safety problem									X																							X
3.2. Identify which local safety code applies									X																							X
3.3. Document local violation by applied code violation.							X	X	X																							X