



Electrical Codes and Safety (INTC 1371)

Credit: 3 semester credit hours (3 hours lecture)

Prerequisite/Co-requisite: INCR 1402 & INTC 1301

Course Description

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Course Objectives

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

1. Learning outcomes/objectives are determined by local occupational need and business and industry trends.

Course Outline

- A. Introduction to OSHA Regulations
 1. Background
 2. Enforcement
 3. Recordkeeping
 4. Compliance Assistance
- B. NEC (National Electric Code)
 1. Article 100 Definitions
 2. Article 110 Electrical Installations
 3. Article 250 Grounding and Bonding
 4. Article 430 Motor Controls
- C. OSHA Hazards Assessments Requirements
 1. Hazard Assessment
 2. Training
 3. Personal Protective Equipment
- D. OSHA Certification of Compliance Requirements
 1. Introduction
 2. Voluntary Training Guidelines
 3. Index of Training Requirements
 4. General Industry Training Requirements, 29 CFR Part 1910
 5. Federal Employee Programs Training Requirements, 29 CFR Part 1960
- E. Electrical Safety
 1. OSHA 1910.301 thru 1910.333
- F. Interview Technique and Skills
 1. Job Interview Process
 2. Pre-Interview
 3. Interview
 4. 4. Post Interview.

Grade Scale

90 – 100	A
80 – 89	B
70 – 79	C
60 – 69	D
0 – 59	F

Course Evaluation

Final grades will be calculated according to the following criteria:

Major Tests/Papers	50%
Classwork/Homework	50%

Course Requirements

1. Students will demonstrate a basic understanding of OSHA regulations.
2. Students will demonstrate a basic understanding of the NEC.
3. Students will demonstrate a knowledge of personal protective gear.
4. Students will be able to explain electrical safety.
5. Students will participate in Project Interview.

Attendance Policy:

1. Missing more than 20% of classes will result in an automatic “F” for the course.
2. Absences are counted for unexcused, excused and coming to class late.
3. Missing more than 20% of a class period will count as an absence.
4. Being tardy 3 times equals 1 absence.

Course Policies

1. No food, drinks, or use of tobacco products in class.
2. No foul or harsh language will be tolerated
3. Turn off all Cell Phones during lectures
4. Headphones may be worn only upon Instructor approval
5. Do not bring children to class.
6. No Cheating of any kind will be tolerated. Students caught cheating or helping someone to cheat can and will be removed from the class for the semester. Cheating can result from expulsion from LIT.
7. If you wish to drop a course, the student is responsible for initiating and completing the drop process. If you stop coming to class and fail to drop the course, you will earn an ‘F’ in the course.
8. Internet Usage
 - a. Classroom computers have access to the internet.

- b. Student usage of the internet will be monitored.
- c. Any unauthorized use of the internet will not be tolerated.
- d. Improper usage of the internet, such as profanity, pornography, gambling, etc... will result in disciplinary action not limited to expulsion from LIT.

Disabilities Statement

The Americans with Disabilities Act of 1992 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. Among other things, these statutes require that all students with documented disabilities be guaranteed a learning environment that provides for reasonable accommodations for their disabilities. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409) 880-1737 or visit the office in Student Services, Cecil Beeson Building.

Student Code of Conduct Statement

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the LIT Catalog and Student Handbook. The LIT Catalog and Student Handbook may be accessed at www.lit.edu or obtained in print upon request at the Student Services Office.

Course Schedule

Week	Topic	Reference
1	Course introduction and policies	Online Handouts
2/3/4/5	NEC	NFPA.org
6/7	Intro to OSHA regulations	Osha.gov
8/9	OSHA hazards assessment requirements	Osha.gov
10/11/12	OSHA certification of compliance	Osha.gov
13/14	Electrical safety	Osha.gov
15/16	Interview Skills and techniques	Project Interview

INTC-1371
Course Syllabi