

**Western Iowa Tech Community College  
Course Outline of Record**

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Date: 10/6/11

Prefix & No.: ELE 101 Course Title: Industrial Safety

Semester **Credit** Hours: 1.00

Lecture **Contact** Hours per Semester: 16.00

Lab **Contact** Hours per Semester: 0.00

Clinical **Contact** Hours per Semester: 0.00

OJT or Internship **Contact** Hours per Semester:

Course/Lab Fee:  Yes  No

Pre and Post Assessments:   

**Course Description**

This course covers mechanical, chemical, environmental and electrical aspects of safety. The role of OSHA in the workplace is presented, along with forms such as Material Safety Data Sheets and the use of Personal Protective Equipment.

Prerequisite: None

Corequisite: None

**Course Needs Statement**

This course was determined to be necessary for the Independent Filmmaking and Audio Engineering Technician AAS degrees at WITCC through the DACUM process. The course content and competencies are applicable to many other programs requiring safety training.

**Required Textbooks and/or materials**

Yes  No  Other

**Course Objectives:**

The course will provide information which should enable the student to:

1. Recognize hazards in lifting, fall and electrical situations
2. Identify safe methods of use for electrical equipment, extension cords and generators
3. Explain how to work safely from heights to minimize danger from falls
4. Identify safe usage and disposal of chemicals
5. Complete Material Safety Data Sheets

**Content Outline**

- I. Electrical Safety
  - A. Extension Cord use
  - B. Generator use
  - C. Lighting use
  - D. Recognizing hazards
- II. Fall Safety
  - A. Working from raised platforms and man lifts
  - B. Working from roofs
  - C. Working with ladders
  - D. Working with Personal Protective Equipment
  - E. Recognizing hazards
- III. Lifting Safety
  - A. Lifting with the body
  - B. Lifting using carts and dollies
  - C. Recognizing hazards
- IV. Chemical Safety
  - A. Usage and disposal
  - B. Material Safety Data Sheets
  - C. Recognizing hazards

## Assessment

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### **Course Competencies**

At the conclusion of the course, the student will be able to:

1. Work safely with electricity
2. Work safely while on raised platforms, roofs and ladders
3. Lift heavy objects correctly and safely
4. Use and dispose of chemicals appropriately

## Addendum

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**Prefix & No.:** ELE 101 **Course Title:** Industrial Safety

**Key words:**

### **Required Textbooks and/or Materials**

Other Materials:

**Course/Lab Fee:** \$0.00

**Rationale (usage) for lab fees:**

### **Additional Information:**

- Realia (specific lecture notes and essential handouts, reference materials, websites)
- Specific plan for each module or lesson
- List of student assignments including expectations for completion
- Assessment instruments and recommended grading criteria.
- Digitized learning objects with assessment
- Cross referenced list of appropriate Plato modules
- List of proven practices that facilitate mastery of content
- Specific activities/strategies for various:
  - modalities of instruction
  - learning styles and needs
  - documented learning disabilities and/or challenges
- Specific multi-media presentations
- Support materials for collegiate tutors
- List of service learning activities
- Plan/guidelines in the event a substitute is needed (IE movie & reaction paper/research activity, group activity, etc.)
- Best Practices(Classroom handouts only)

**Common Final:**  Yes  No

**See Division Chair for facility and equipment needs.**

**Reminder: Each Course Outline of Record is expected to be reviewed every five (5) years.**

**Attached Files:**