



Revised by: C. Bertram
Reviewed by: R. Mallard
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Industrial Education Safety (IES) 1059 Trainer Course in Occupational Safety and Health Standards for the Construction Industry (1.5 Units)
[formerly Industrial Education Safety 58B]

Prerequisite: Successful completion in Industrial Education 1058 with a grade of “C” or better

Prerequisite knowledge/skills:

Before entering the course the student should be able to:

1. identify the most common hazards found on construction sites,
2. locate the correct Occupational Safety and Health Administration (OSHA) standard in 29 Code of Federal Regulations (CFR) 1926, and
3. discuss various construction processes, materials, and equipment.

Total Hours: 26 hours lecture

Catalog Description: This course is designed for those preparing to train workers in construction industry safety and health. The course builds on the subject matter presented in Industrial Education Safety 1058 focusing on effective preparation and presentation of Federal and California OSHA policies, procedures, standards, and construction safety and health principles. The course will also cover the development and delivery of safety presentations. This course is offered on a Pass/No Pass basis with the option to receive a letter grade.

Type of Class/Course: Degree Credit

Textbook: *29 CFR §1926 Construction Regulations*. Mangan Communications, Inc.: Davenport, Iowa, 2008. Print.

Cal-OSHA Construction and Electrical Safety Orders. Mangan Communications, Inc.: Davenport, Iowa, 2008. Print.

Cantonwine, Sheila Cullen. *Safety Training that Delivers: How to Design and Present Better Technical Training*. Des Plaines: American Society of Safety Engineers, 1999. Print.

Additional Required Materials: None

Course Objectives:

By the end of the course, a successful student will be able to:

1. explain the history of, and the reason for, federal safety and health regulations,
2. explain the OSHA Act, CFR 1926,
3. identify the common causes of accidents and fatalities in hazardous areas of construction,



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4. identify abatement techniques for hazards found in construction,
5. apply basic instructional techniques and the use of visual aids, student workshops, and supplementary course materials, and
6. conduct 10 hour and 30 hour training programs using the OSHA construction regulations and outreach requirements and guidelines.

Course Scope and Content:

- Unit I Introduction
 - A. Trainer Course Objective v. Standards Course
 - B. Purpose and Scope of Outreach Courses
 - C. Cal-OSHA Equivalentents

- Unit II Outreach Training Objectives I
 - A. Steel Erection
 - B. Fall Protection
 - C. Ladders and Stairs
 - D. Scaffolding

- Unit III Outreach Training Objectives II
 - A. Excavations
 - B. Electrical
 - C. Demolition
 - D. Cranes
 - E. Rigging
 - F. Fire Protection

- Unit IV Outreach Training Objectives III
 - A. Welding
 - B. Concrete
 - C. Health Hazards
 - D. Confined Spaces
 - E. Training Techniques

- Unit V Presentations
 - A. 10-Minute “Tailgate” – 10 Minutes Preparation Time
 - B. 45-Minute Safety Meeting – Overnight Preparation Time

Learning Activities Required Outside of Class: None

Methods of Instruction:

1. Lecture
2. Group exercises

Methods of Evaluation:

1. Written final exam
2. Observation of student performance