

Revised by: C. Bertram
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Industrial Education Safety (IES) 1058 Occupational Safety and Health Standards for the Construction Industry (1.5)

[formerly Industrial Education Safety 58A]

Prerequisite: None

Total Hours: 26 hours lecture

Catalog Description: This course covers Federal and California Occupational Safety and Health Administration (OSHA) policies, procedures, standards, and construction safety and health principles. Topics include scope and application of the Federal and California OSHA standards. Special emphasis is on the most hazardous functions workers perform during construction projects. 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: *29CFR 1926 Construction Industry Regulations*. Mangan Communications, Inc.: Davenport, Iowa, 2008. Print.

Cal-OSHA Construction and Electrical Safety Orders. Mangan Communications, Inc.: Davenport, Iowa, 2010. Print.

OSHA. *Essentials of Safety Construction Training and Reference Guide Vol 1 & 2 with Trainee Workbook*. Mancomm, 2016.

Additional Required Materials: None

Course Objectives:

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

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

Course Scope and Content:

Unit I Introduction
A. Introduction to OSHA
B. Inspections and Citations
C. Recordkeeping
D. Cal-OSHA Equivalents and Differences

Unit II Standards I
A. Welding
B. Fire Prevention
C. Electrical
D. Scaffolds
E. Fall Protection
F. Cal-OSHA Equivalents and Differences

Unit III Standards II

- A. Signs and Barricades
- B. Ladders and Stairways
- C. Cranes
- D. Rigging
- E. Cal-OSHA Equivalents and Differences

Unit IV Standards III

- A. Excavations
- B. Hand and Portable Power Tools
- C. Personal Protective Equipment
- D. Health Hazards
- E. Confined Spaces
- F. Cal-OSHA Equivalents and Differences

Learning Activities Required Outside of Class: None

Methods of Instruction:

- 1. Lecture
- 2. In-class workshops

Methods of Evaluation:

- 1. Written final exam
- 2. Performance observation