

CNST A165: CONSTRUCTION SAFETY/CAL OSHA

Item	Value
Curriculum Committee Approval Date	12/02/2020
Top Code	095720 - Construction Inspection
Units	3 Total Units
Hours	54 Total Hours (Lecture Hours 54)
Total Outside of Class Hours	0
Course Credit Status	Credit: Degree Applicable (D)
Material Fee	No
Basic Skills	Not Basic Skills (N)
Repeatable	No
Open Entry/Open Exit	No
Grading Policy	Standard Letter (S)

Course Description

Regulations related to general construction safety. Meets the requirements and follows the guidelines for 30-hour OSHA Construction Outreach Training. U.S. Department of Labor cards will be issued upon successful completion of this course. Transfer Credit: CSU.

Course Level Student Learning Outcome(s)

1. Discuss the history of the Safety Movement in the United States and the concerns of the California Occupational Safety and Health Administration (Cal-OSHA).
2. Describe the appropriate ways of dealing with Cal-OSHA compliance and Cal-OSHA inspections.
3. Develop a contractor's safety program that is compliant with the Occupational Safety and Health Administration manual.

Course Objectives

- 1. Discuss the history of the Safety Movement, OSHA, and the Williams Steiger Act.
- 2. List appropriate ways of dealing with Cal-OSHA compliance.
- 3. Discuss appropriate ways of dealing with Cal-OSHA inspections.
- 4. Develop a contractor's safety program.
- 5. Analyze illness, injury, injury prevention plans and Senate Bill 198.
- 6. Define accident data and statistics, terminology, investigations, workmen's compensation, and workmen's fraud
- 7. Use Occupational Safety and Health Administration manual: introductions, definitions, competent person designation, and P.P.E.
- 8. Review dusts, fumes, mists, vapors, gases, smoke, and fire protection regulations.
- 9. Review rock drilling, excavations, trenches and earthwork regulations.
- 10. Evaluate regulations for bins, bunkers, hoppers, conveyors, storage, and blasting operations
- 11. List haulage and earth moving regulations
- 12. List regulations for cranes and signals.
- 13. List regulations for vehicle, traffic control, flaggers, barricades, and work over and near water.

- 14. List regulations for standard railings, ramps, runways, stairwells, stairs, access, and egress
- 15. List regulations for floors, roofs, wall openings, and temporary floors
- 16. List regulations for scaffolds, general types, and suspended scaffolds
- 17. List assured grounding, ground fault circuit interrupt, and ox/Acer USG 4-Storage Erection regulations.

Lecture Content

Introduction, Policies, Procedures, History of Safety Movement, OSHA, Williams Steiger Act, and General Duty Clause Safety responsibility, OSHA, Williams Steiger Act, and General Duty Clause Dealing with OSHA, Excavation-Shafts and Confined spaces Contractor s Safety Program, Illness, Injury, Injury Prevention Plan, and Senate Bill 198. Accident Data and Statistics, Terminology, Investigation, Workmen s Compensation, and Workmen s Fraud. Introductions, Definitions, Competent Person, and P.P.E. Ladders, Saws, and Powder Actuated Tools Dusts, Fumes, Mists, Vapors, Gases, Smoke, and Fire Protection Rock Drilling, Excavations, Pile Driving, Trenches, and Earthwork Bins, Bunkers, Hoppers, Conveyors, Storage, and Blasting Operations Haulage and Earth Moving; Cranes, Hoists, Hoisting, and Signals Vehicle, Traffic Control, Flaggers, Barricades, and Work Over or Near Water Standard Railings, Ramps, Runways, Stairwells, Stairs, Access, and Egress Erection and Construction of Floors, Roofs, Wall Openings, and Temporary Floors Safety Belts, Nets, Scaffolds, General Types, and Suspended Scaffolds Electrical Safety, Assured Grounding, Ground Fault Circuit Interrupt, and ox/Acer USG 4-Storage Erection. Selected Topics

Method(s) of Instruction

- Lecture (02)
- DE Live Online Lecture (02S)

Instructional Techniques

Instruction methodologies will include, but not necessarily be restricted to, the following: 1. Detailed multimedia/lectures of each topic covered 2. Student feedback during each lecture 3. Detailed illustrative discussion of lecture handout and textbook information

Reading Assignments

Writing Assignments

Essay assignments, report preparation, and projects

Out-of-class Assignments

Demonstration of Critical Thinking

Quizzes, exams, short answers, safety poster, and reports

Required Writing, Problem Solving, Skills Demonstration

Essay assignments, report preparation, and projects

Textbooks Resources

1. Required State of California. , Cal/OSHA Construction Industry Safety Codes, ed. -, 2008