OSHA-30 Interactive Laboratory Course
Matt Bramlett & Patrick Garcia
Construction Management B.S.
California Polytechnic State University
San Luis Obispo, CA

Abstract

The end goal of this research-based project is to evaluate whether an OSHA 30 integrated lab course would be beneficial to Cal Poly’s Construction Management (CM) program and how it might also benefit the construction industry. The research conducted will be to interpret whether or not there is a need for this type of class to be included into the Construction Management Curriculum. Along with data research, two separate surveys were conducted, one survey taken by the Cal Poly Construction Management student population who are in their second year or higher, and the other survey to industry professionals. Additionally, a fellow Construction Management student, Mathew Bramlett, is working on the deliverables such as a course syllabus, lab topics, and assessments of the proposed lab class. After analyzing the data, discussing the need of a course that solely focuses on safety, and referring to my own past experiences, I have concluded implementing an OSHA 30 based lab course that emphasizes safety and hazard identification will be worthwhile for future Cal Poly Construction Management students and the construction industry. The purpose of this course will be to have students get their OSHA 30 certificate while taking the proposed class and conduct labs based on topics covered in the OSHA 30 program so that students know more about safety before they start their professional careers so they can hopefully identify and stop accidents before they happen and keep workers and the public safe.

Keywords: OSHA, Safety, Hazard, Identification, Injury, Death

Survey Free Responses

The industry professionals were asked what topics they would like to see their employees know more about.

1. PPE/SDS
2. Trench safety/confined space
3. Hazardous materials
4. General jobsite knowledge
5. Safety/hazard identification
6. Scaffold safety
7. Miscellaneous OSHA rules and regulations
8. Trip hazards
9. Fall prevention
10. Trip hazards

Students were asked what safety topics they would be interested in learning more about.

1. Accident prevention and investigation
2. Hazardous materials
3. Best practices in the most common temporary structures on site
4. Preventing fall and caught in between hazards
5. Noise and dust control
6. Electrical safety
7. General jobsite safety
8. Trenching and shoring
9. On site safety such as different PPE for different types of jobs
10. Fall prevention

Your company would be more inclined to hire OSHA-30 certified college graduate. (0= strongly agree and 100= strongly agree)