

CNST-1050: CONSTRUCTION SAFETY AWARENESS

Cuyahoga Community College

Viewing: CNST-1050 : Construction Safety Awareness

Board of Trustees:

May 2024

Academic Term:

Fall 2024

Subject Code

CNST - Construction Engineering Tech

Course Number:

1050

Title:

Construction Safety Awareness

Catalog Description:

Construction safety awareness covers the OSHA curriculum for the 10-hour Outreach Training program for Construction Safety and Health. Topics include an introduction to OSHA, fall protection, struck by, caught in or between hazards, electrical hazards, fire protection, material handling, equipment safety, concrete and masonry construction, welding and cutting, excavation, stairways and ladder safety and other applicable topics.

Credit Hour(s):

1

Lecture Hour(s):

0

Lab Hour(s):

2

Requisites

Prerequisite and Corequisite

None. Course may not be taken if student already has completed CNST-1750.

Outcomes

Course Outcome(s):

Obtain OSHA 10 certification for the construction industry

Essential Learning Outcome Mapping:

Not Applicable: No Essential Learning Outcomes mapped. This course does not require application-level assignments that demonstrate mastery in any of the Essential Learning Outcomes.

Objective(s):

1. Explain the importance of safety in the construction industry and the role personnel play in safety and health.
2. List ways to prevent violence and reduce stress in the workplace.
3. Explain workers' compensation and OSHA compliance.

Course Outcome(s):

Identify types of construction workplace hazards.

Essential Learning Outcome Mapping:

Not Applicable: No Essential Learning Outcomes mapped. This course does not require application-level assignments that demonstrate mastery in any of the Essential Learning Outcomes.

Objective(s):

1. Describe job safety, and prevention and control of workplace hazards.
 2. Describe physical, chemical, and biological hazards in the construction industry.
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Methods of Evaluation:

1. Oral presentation of assigned work
2. Outside assignments
3. In-class quizzes
4. Comprehensive written final examination
5. In-class participation and group breakout sessions

Course Content Outline:

1. Safety movement in the construction industry
 - a. Past and present history trends
 - b. Environmental safety and ISO 14000
2. OSHA compliance with personal protective equipment
 - a. Fire protection
 - b. Fall protection
 - c. Electrical safety
3. Construction safety and health: Program and Policies
 - a. Job safety and hazard analysis
 - b. Emergency response plan

Resources Other

- Interactive Learning Paradigms, Inc. Material Safety Data Sheet (MSDS)
Search Web Page, www.ilpi.com/msds/ (<http://www.ilpi.com/msds/>)
- FEMA Resource Center (2021) <https://training.fema.gov/>
- National Safety Compliance YouTube Channel (2022) <https://www.youtube.com/c/oshasafetytraining> (<https://www.youtube.com/c/oshasafetytraining/>)
- OSHA General Industry Resources Page (2023) <https://www.osha.gov/general-industry> (<https://www.osha.gov/general-industry/>)

Top of page

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