

Washtenaw Community College Comprehensive Report

CMG 130 Construction Site Safety and OSHA Regulations Effective Term: Fall 2021

Course Cover

College: Advanced Technologies and Public Service Careers
Division: Advanced Technologies and Public Service Careers
Department: Heating, Ventilation and A/C
Discipline: Construction Management
Course Number: 130
Org Number: 14750
Full Course Title: Construction Site Safety and OSHA Regulations
Transcript Title: Const Site Safety & OSHA Req
Is Consultation with other department(s) required: No
Publish in the Following: College Catalog , Time Schedule , Web Page
Reason for Submission: Course Change
Change Information:
 Course description
 Outcomes/Assessment
 Objectives/Evaluation

Rationale: Assessment report submitted 8/17/20

Proposed Start Semester: Fall 2020

Course Description: In this course students will learn about safe work practices required by the Michigan Occupational Safety and Health Act (MIOSHA) and the Federal Occupational Safety and Health Administration (OSHA) as they apply to construction site safety. Topics include personal protective equipment (PPE); hand, portable and stationary power tools and equipment; construction site safety; MIOSHA and OSHA standards; HAZMAT; and an investigation into the philosophical, social, economic, and technological basis for safety. Students who successfully complete the course can receive an OSHA-30 Hour card.

Course Credit Hours

Variable hours: No

Credits: 3

Lecture Hours: Instructor: 45 Student: 45

Lab: Instructor: 0 Student: 0

Clinical: Instructor: 0 Student: 0

Total Contact Hours: Instructor: 45 Student: 45

Repeatable for Credit: NO

Grading Methods: Letter Grades

Audit

Are lectures, labs, or clinicals offered as separate sections?: NO (same sections)

College-Level Reading and Writing

College-level Reading & Writing

College-Level Math

No Level Required

Requisites

General Education

Request Course Transfer

Proposed For:

Eastern Michigan University
Ferris State University
Lawrence Tech
Michigan State University
Oakland University
Wayne State University
Western Michigan University

Student Learning Outcomes

1. Describe accident prevention plans used in the construction industry.

Assessment 1

Assessment Tool: Written accident prevention program
Assessment Date: Winter 2021
Assessment Cycle: Every Three Years
Course section(s)/other population: All
Number students to be assessed: All
How the assessment will be scored: Rubric
Standard of success to be used for this assessment: 75% of students will score 80% or higher
Who will score and analyze the data: Departmental faculty

Assessment 2

Assessment Tool: Exam
Assessment Date: Winter 2021
Assessment Cycle: Every Three Years
Course section(s)/other population: All
Number students to be assessed: All
How the assessment will be scored: Exam answer key
Standard of success to be used for this assessment: 75% of students will score 80% or higher
Who will score and analyze the data: Departmental faculty

2. Determine the costs of accidents.

Assessment 1

Assessment Tool: Exam
Assessment Date: Winter 2021
Assessment Cycle: Every Three Years
Course section(s)/other population: All
Number students to be assessed: All
How the assessment will be scored: Exam answer key
Standard of success to be used for this assessment: 75% of the students will score 80% or higher.
Who will score and analyze the data: Departmental faculty

3. Describe behavior-based safety enforcement.

Assessment 1

Assessment Tool: Short answer and essay exam
Assessment Date: Winter 2021
Assessment Cycle: Every Three Years
Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Rubric

Standard of success to be used for this assessment: 75% of the students will score 80% or higher.

Who will score and analyze the data: Departmental faculty

4. List the OSHA requirements for training.

Assessment 1

Assessment Tool: Written accident prevention program

Assessment Date: Winter 2021

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Rubric

Standard of success to be used for this assessment: 75% of students will score 80% or higher

Who will score and analyze the data: Departmental faculty

5. Define medical management procedures.

Assessment 1

Assessment Tool: Exam

Assessment Date: Winter 2021

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Exam answer key

Standard of success to be used for this assessment: 75% of students will score 80% or higher

Who will score and analyze the data: Departmental faculty

6. Identify the safety milestones and the rationale for OSHA.

Assessment 1

Assessment Tool: Exam

Assessment Date: Winter 2021

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Exam answer key

Standard of success to be used for this assessment: 75% of students will score 80% or higher

Who will score and analyze the data: Departmental faculty

Course Objectives

1. Recognize and describe the history of the safety movement, the milestones in safety movement, and the role of organized labor.
2. Recognize how different safety practices and rules affect the cost of construction (which includes loss of time, worker's compensation and safety equipment).
3. Describe safety management regulations, including job site safety, accident reporting, emergency plans, and safety promotion.
4. Identify HAZMAT regulations including handling and disposal.
5. Identify the Focus Four Construction Safety regulations.
6. Describe accident investigations.
7. List the workers compensation pros and cons.
8. Define a competent person.
9. Determine how a company authorizes an employee activities such as performing tasks, using equipment or to verify safety training.
10. Write a construction safety policy.
11. Define emergency procedures required on a construction site.

12. List the types of OSHA inspections.
13. List the requirements of a personal fall arrest system.
14. List the different types of fire extinguishers.
15. Determine the requirements of a respirator training system.
16. Prepare and present a five-minute safety talk.
17. Identify signals used when communicating with operators.
18. List proper ladder set up.
19. Identify the requirements of Subpart R.

New Resources for Course

Course Textbooks/Resources

Textbooks

David L Goetsch. *Construction Safety And Health*, Second ed. Pearson, 2013

Manuals

Periodicals

Software

Equipment/Facilities

Level III classroom

| <u>Reviewer</u> | <u>Action</u> | <u>Date</u> |
|---|---------------------------|---------------------|
| Faculty Preparer: <i>Cristy Lindemann</i> | <i>Faculty Preparer</i> | <i>Aug 10, 2020</i> |
| Department Chair/Area Director: <i>Brian Martindale</i> | <i>Recommend Approval</i> | <i>Aug 12, 2020</i> |
| Dean: <i>Jimmie Baber</i> | <i>Recommend Approval</i> | <i>Aug 17, 2020</i> |
| Curriculum Committee Chair: <i>Lisa Veasey</i> | <i>Recommend Approval</i> | <i>May 14, 2021</i> |
| Assessment Committee Chair: <i>Shawn Deron</i> | <i>Recommend Approval</i> | <i>May 18, 2021</i> |
| Vice President for Instruction: <i>Kimberly Hurns</i> | <i>Approve</i> | <i>May 19, 2021</i> |