

CONT 142

Construction Safety and Health

3 Credits

Community College of Baltimore County Common Course Outline

Description

CONT 142 – Construction Safety and Health: includes an overview of the hazards and controls of various phases of construction. Appropriate Maryland Occupational Safety and Health (MOSH) and Occupational Safety and Health Administration (OSHA) safety standards and requirements for safe workplaces are reviewed. Students become familiar with updated regulations and planning techniques for safety in the construction process.

Overall Course Objectives

Upon completion of this course, students will be able to:

1. summarize federal safety and health regulations and consensus standards applicable to the construction industry;
2. summarize OSHA's minimum requirements for a safety and health program for construction activities;
3. determine basic hazards related to construction activities;
4. identify common hazards of construction;
5. recommend appropriate control measures to eliminate or minimize hazards;
6. implement safety and health programs for construction projects;
7. interpret safety and health regulations as they pertain to construction activities;
8. evaluate regulatory compliance pertaining to construction activities;
9. conduct hazard assessments of construction projects;
10. implement housekeeping programs for construction projects;
11. recommend appropriate personal protective equipment to control construction hazards;
12. implement confined space safety programs specific to construction; and
13. safeguard hazardous materials commonly used in construction activities.

Major Topics

- I. Introduction to OSHA regulations
- II. Competent/qualified persons
- III. Planning for construction safety
- IV. Occupational health and environmental controls
- V. Electrical safety
- VI. Materials handling, storage, use and disposal
- VII. Cranes, derricks, hoist, elevators, and conveyors
- VIII. Hand and power tools

The Common Course Outline (CCO) determines the essential nature of each course.
For more information, see your professor's syllabus.

- IX. Welding and cutting
- X. Personal protective and lifesaving equipment
- XI. Fire protection and prevention
- XII. Confined space entry
- XIII. Scaffolding
- XIV. Excavations
- XV. Motor vehicles and mechanized equipment
- XVI. Floor and wall openings
- XVII. Stairways and ladders
- XVIII. Concrete and masonry construction
- XIX. Recordkeeping
- XX. Underground construction

Course Requirements

Grading will be determined by the individual faculty member, but shall include the following, at minimum:

- Two quizzes
- Four assignments
- Midterm exam
- Final exam
- Final project

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