

Course Outline  
OSHT 121  
Construction Safety and Health  
Credit Hours: 3

The Community College of Baltimore County

Description

Construction Safety and Health

Provides an understanding of the hazards and controls of the various phases of construction. Covers appropriate MOSH and OSHA safety standards; requirements for safe workplaces; updates of regulations; techniques of planning for safety in the construction process.

Learning Objectives

- Students will understand federal safety and health regulations and consensus standards applicable to the construction industry.
- Students will understand OSHA's minimum requirements for a safety and health program for construction activities.
- Students will understand the basic hazards related to construction activities.

Performance Objectives

- Students will be able to identify common hazards of construction.
- Students will be able to recommend appropriate control measures to eliminate or minimize hazards.
- Students will be able to develop and implement safety and health programs for construction projects.
- Students will be able to obtain and interpret safety and health regulations as they pertain to construction activities.
- Students will be able to evaluate regulatory compliance pertaining construction activities.
- Students will be able to conduct hazard assessments of construction projects.
- Students will be able to design and implement housekeeping programs for construction projects.
- Students will be able to evaluate hazards of construction and recommend appropriate personal protective equipment to control those hazards.
- Students will be able to identify confined spaces and design and implement confined space safety programs specific to construction.
- Students will be able to effectively identify and control hazardous materials commonly used in construction activities
- Students will be able to provide training to construction personnel pertaining to the hazards of construction activities and their control measures.

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Major Topics

- Introduction to OSHA regulations
- Competent/qualified persons
- Planning for construction safety
- Occupational health and environmental controls
- Electrical safety
- Materials handling, storage, use and disposal.
- Cranes, derricks, hoists, elevators and conveyors
- Hand and power tools
- Welding and cutting
- Personal protective and lifesaving equipment

- Fire protection and prevention
- Confined space entry
- Scaffolding
- Excavations
- Motor vehicles and mechanized equipment
- Floor and wall openings
- Stairways and ladders
- Concrete and masonry construction
- Recordkeeping
- Underground construction

#### Course Requirements

- Two quizzes, each worth 5% of the final grade.
- One mid-term exam worth 30% of the final grade.
- One final exam worth 30% of the final grade.
- One term project worth 30% of the final grade.

#### Other Course Information

This course is required for the A.A.S. degree in occupational safety and health, and is an elective for the certificate program.