

Course Outline
OSHT 251
Recognition and Control of Physical and Health Hazards
Credit Hours: 3

The Community College of Baltimore County

Description

Recognition and Control of Physical and Health Hazards

Covers recognition and control of hazards related to chemicals, welding, pressure vessels, material handling, power and hand tools, ventilation and working surfaces. Develops students' ability to make corrective measures; covers OSHA and MOSH regulations; includes a field trip to observe safety practices.

Learning Objectives

- Students will develop an understanding of some of the most common hazards found in industry.
- Students will know basic regulations, codes and standards.
- Students will know how such hazards contribute to accidental death and injury.

Performance Objectives

- Students will be able to identify hazards and recommend appropriate control measures.
- Students will be able to obtain and interpret safety and health regulations as they pertain to selected occupational hazards.
- Students will be able to evaluate regulatory compliance pertaining to occupational hazards.
- Students will be able to conduct hazard assessments of equipment and facilities.
- Students will be able to evaluate the construction of elevated working locations such as scaffolds and platforms for hazards and make appropriate recommendations to control those hazards.
- Students will be able to recognize occupations which are at risk for exposure to bloodborne pathogens and recommend appropriate control measures to prevent exposure to bloodborne pathogens.
- Students will be able to evaluate a chemical manufacturing system to determine hazards of the process and design work practices to control those hazards.
- Students will be able to design a basic motor fleet accident prevention program.
- Students will be able to evaluate the hazards of materials found in the work environment and design appropriate control measures.

Major Topics

- Plant lay-out and facilities maintenance.
- Boilers and pressure vessels.
- Walking and working surfaces
- Working from elevations and fall protection
- Hand and portable power tools.
- Hazardous materials and their control.
- Process safety management
- Fleet safety
- Compressed gases
- Manual lifting, mechanical lifting, storage, conveyors and cranes.
- Ropes, chains, slings, hooks, rigging and powered industrial trucks.
- Hot Work
- Ventilation
- Bloodborne pathogens

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 the certificate program.