

Course Outline
OSHT 106
Hazard Recognition and Control
Credit Hours: 3

The Community College of Baltimore County

Description

Hazard Recognition and Control

Covers the principles and concepts of the recognition and control of accident and loss-producing conditions in existing industrial facilities. Focuses on hazards related to plant facilities and lay-out, machinery and machine guarding, electrical safety, control of hazardous energy, lockout/tagout, personal protective equipment, hazard communication, flammable liquids, confined space entry and fire protection, and applicable OSHA and MOSH regulations and other recognized standards; includes a field trip.

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 determine whether machinery is adequately protected against hazards.
- Students will be able to conduct hazard assessments of equipment and facilities.
- Students will be able to interpret simple electrical wiring diagrams and perform simple electrical calculations.
- Students will be able to design and implement hazardous energy control procedures.
- Students will be able to evaluate occupational hazards and recommend appropriate personal protective equipment to control those hazards.
- Students will be able to identify confined space and design and implement confined space safety programs.
- Students will be able to read and interpret material safety data sheets, assess the hazards of industrial chemicals and recommend appropriate control measures.
- Students will be able to effectively control hazards of flammable and combustible materials.

Major Topics

- Fundamentals of hazard recognition and control
- Plant facilities
- Machinery and machine guarding fundamentals.
- Requirements for design and construction of machine guards.
- Electrical fundamentals and safety principals.
- Control of hazardous energy, lockout/tagout.
- Personal protective equipment.
- Confined Spaces.
- Flammable and combustible liquids
- Hazard Communication
- New and pending OSHA regulations

- Fundamentals of fire protection

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 both the A.A.S. and certificate in occupational safety and health.