

Course Outline
OSHT 266
Applied Industrial Hygiene
Credit Hours: 3

The Community College of Baltimore County

Description

Applied Industrial Hygiene

Studies the concepts of industrial hygiene. Focuses on principles and evaluation techniques, including select instrumentation for identifying problems in environmental control; provides familiarity with testing procedures and instrumentation used in the field.

Prerequisite: OSHA 161

Learning Objectives

- Students will understand the basic principals employed in industrial hygiene monitoring equipment. To be able to complete basic calculations necessary to use the equipment and obtain results.
- Students will develop an interest in industrial hygiene and promote the industrial hygienist's role in a comprehensive safety and health program.

Performance Objectives

- Students will be able to select correct monitoring instruments for specific monitoring applications.
- Students will be able to correctly use certain industrial hygiene monitoring equipment.
- Students will be able to anticipate, recognize, evaluate, and control industrial hygiene hazards in the workplace.
- Students will be able to assess basic indoor air quality hazards and make appropriate recommendations for corrective action.
- Students will be able to identify occupations at risk for exposure to bloodborne pathogens and design and implement control programs.
- Students will be able to perform basic ergonomic workplace evaluations.
- Students will be able to interpret and apply the NIOSH lifting guide.
- Students will be able to recommend appropriate personal protective equipment for control of occupational exposure to hazardous materials.
- Students will be able to assess the effectiveness of selected personal protective equipment.
- Students will be able to select appropriate laboratories to be used to analyze industrial hygiene samples.

Major Topics

- Indoor air quality
- Integrated air sampling – equipment and procedures
- Direct reading instruments
- Math workshop
- Toxicology
- Management and auditing of the industrial hygiene program
- Laboratory selection
- Risk assessment
- Occupational exposure assessment strategies
- Bloodborne pathogens
- Ergonomics
- Personal protective equipment

Course Requirements

- One mid-term exam worth 30% of the final grade.
- One final exam worth 35% of the final grade.
- One oral presentation worth 20% of the final grade.
- Homework as assigned and attendance in class worth 15% of final grade.

Other Course Information

This course is a requirement for the A.A.S. degree in occupational safety and health, and the certificate program.