

# OCCUPATIONAL AND ENVIRONMENTAL SAFETY MANAGEMENT

**PROGRAM DESCRIPTION:** A program that provides training for students to function as paraprofessionals or technicians in the occupational and environmental safety and health field. The curriculum offers a broad background on safety and health program administration, workplace hazard recognition/evaluation/control, workers' compensation principles, hazardous chemical risk assessment, and environmental management.

- **DEGREES OFFERED:** Certificate of Achievement, Associate in Science
- **RECOMMENDED PREPARATION:** Courses in writing, speech, chemistry, math, biology, psychology, and computer
- **COST:** Books and Supplies - approximately \$200 - \$300 per semester
- **TECHNICAL STANDARDS:** Can be found at <http://tech.honolulu.hawaii.edu/oesm>

## THE OCCUPATION

**DESCRIPTION:** Health and safety professionals assist public and private organizations with creating a safe and healthful workplace and environment. They develop and implement safety programs to prevent work-related accidents, injuries, and illnesses. They also manage environmental programs that include proper handling of toxic materials and hazardous wastes. Job titles include compliance safety and health officer, safety coordinator, safety manager, industrial hygiene technician, environmental specialist, environmental technician, hazardous material technician, etc. Health and safety professionals also conduct training, facilitate meetings, present safety program to management, inspect workplace facilities, and provide consultations on occupational and environmental safety regulations.

**SKILLS AND APTITUDES NEEDED:** Ability to work well with people and independently, follow instructions, express ideas clearly, see detail in size, shape and form, and visualize 3-dimensional objects from pictures or written descriptions. Must have good eyesight, hearing, and physical condition. Ability to use good judgment, analyze and use facts, and work with a high degree of accuracy.

**WORK SETTING:** Both indoors and outdoors. Includes traveling from one work site to another, meeting many different people, and working over 40 hours a week. Some health and safety professionals may be required to climb, reach, crawl, or enter a confined area. May be exposed to loud noises, extreme temperatures, and other hazardous conditions.

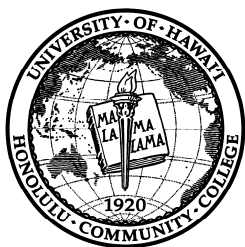
**EMPLOYERS:** Governmental agencies, the military, private firms, construction, hospital, manufacturing, transportation and environmental consulting.

**CAREER LADDER:** ENTRY LEVEL: environmental technician, safety coordinator  
ADVANCEMENT: environmental manager, safety manager, safety director

**EMPLOYMENT OPPORTUNITIES:** Balance to slight surplus of beginners and balance of experienced workers; varies with specialty. Outlook depends on public concern for potential health and safety hazards, legislation for occupational safety and health regulations, government funding for health and safety programs, development of new housing and commercial buildings, technological advances, and replacement needs. Locally and nationally average employment growth is expected through the year 2014.

**WAGES:** Salary for health and safety workers professionals in the public sector start around \$2000.00 a month, while it may start as high as \$3500.00 monthly. Experienced professionals can earn more than \$6,000.00 a month.

## Honolulu Community College



### Occupational & Environmental Safety Management Program (OESM)

	<u>Requirements (credit-hrs)</u>	
	<u>AS Degree</u>	<u>Certificate</u>
General Education	25	10
OESM Compulsory	25	24
OESM Electives	<u>15</u>	<u>12</u>
	65	46

#### ***General Education:***

- Computing Literacy & Applications
- Psychology of Work
- Composition I
- Business & Management Writing
- Personal and Public Speech
- Human Biology
- Environmental Chemistry
- Statistics

#### ***OESM Compulsory:***

- Introduction to Occupational Safety & Health
- OSH Safety & Health Standards, Codes & Regulations
- Occupational-Related Diseases
- Introduction to Industrial Hygiene
- Techniques of Industrial Hygiene
- Introduction to Environmental Health
- Safety Program Management
- Labor and Management Safety Partners

#### ***OESM Electives-OSH:***

- Introduction to Ergonomics
- OSH in Construction
- Electrical Safety
- Industrial Fire Prevention
- Accident Investigation Techniques
- Managing Workers Compensation
- Physical Hazards Control

#### ***OESM Electives-Environment:***

- Hazardous Waste Management Applications
- Hazardous Materials Management Applications
- Emergency Response for Hazardous Materials
- Environmental Sampling & Analytical Techniques