

# Occupational Safety and Health Technology

## Associate of Applied Science Degree Program

The Occupational Safety and Health Technology program prepares students for careers in the occupational safety and health field where they will identify, analyze and control hazards of the work place. Graduates will develop a strong background in safety, health and environmental topics, as well as the core sub-disciplines of chemistry, math, science, and English, including technical writing and psychology.

Graduates will be trained to manage safety and health programs, perform safety inspections, audits, develop safety controls, and ensure compliance with the OSHA standards and regulations. The AAS degree program will comply with the requirements of the Board of Certified Safety Professionals to sit for the ASP/CSP exam, with the required years of professional experience.

### Occupational Safety and Health Technology

College of the Mainland  
1200 Amburn Road  
Texas City, Texas 77591

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E-mail: [joakley@com.edu](mailto:joakley@com.edu)  
Web: [www.com.edu/osht](http://www.com.edu/osht)

Classes are located at:  
The Gulf Coast Safety Institute  
320 Delaney Road  
LaMarque, Texas 77568

#### Safety and Health Courses Credit Hrs

OSHT 1301	Introduction to Safety and Health	3
OSHT 1309	Physical Hazards Control	3
OSHT 1313	Accident Prevention, Inspection and Investigation	3
OSHT 1321	Fire Protection Systems	3
OSHT 1305	OSHA Regulations - Construction Industry	3
OSHT 2305	Ergonomics and Human Factors in Safety	3
OSHT 2309	Safety Program Management *Capstone	3
OSHT 2401	OSHA Regulations - General Industry	4
EPCT 1305	Environmental Regulations Overview	3
EPCT 1313	Contingency Planning	3
EPCT 1341	Principles of Industrial Hygiene	3
Sub-Total		34

#### General Education Courses Credit Hrs

ENGL 1301	Composition 1	3
MATH 1314	College Algebra	3
CHEM 1411	General Chemistry I	4
ENGL 2311	Technical Writing	3
HUMA	Humanities/Fine Arts Elect	3
PSYC 2301 or SOCI 1301	Introduction to Psych or Introduction to Soci	3
Science Elective with Lab: Student may choose from Biology, Anatomy and Physiology, Chemistry, Geology or College Physics		4
One Elective: Eng. 1302, COSI 1301, BMGT 2309 or 2347, BUSI 2304, SPCH 1315		3
Sub-Total		26
Degree Total		60



## **Safety and Health Courses**

### **OSHT1301 – Introduction to Safety and Health; 3 Credit Hours**

Introduction to identifying appropriate procedures to minimize or eliminate injuries and illness in the workplace; incorporate job safety analysis (JSA) and appropriate training; and name elements of an effective safety culture.

### **OSHT 1309 – Physical Hazards Control; 3 Credit Hours**

A study of the physical hazards in industry and the methods of workplace design and redesign to control these hazards. Emphasis is placed on the regulation codes and standards associated with the control of physical hazards.

### **OSHT 1313 – Accident Prevention, Inspection, & Investigation; 3 Credit Hours**

A basis for understanding the nature of occupational hazard recognition, accident prevention, loss reduction, inspection techniques, and accident investigation analysis.

### **OSHT 1321– Fire Protection Systems; 3 Credit Hours**

A study of fire protection systems and their applications with emphasis on the fire prevention codes and standards.

### **OSHT 1305 – OSHA Regulations—Construction Industry; 3 Credit Hours**

A study of Occupational Safety and Health Administration (OSHA) regulations pertinent to the construction industry

### **OSHT 2305 – Ergonomics and Human Factors in Safety; 3 Credit Hours**

An in-depth study of the relationship of human behavior and ergonomics as applied to workplace safety.

### **OSHT 2309 – Safety Program Management \* Capstone; 3 Credit Hours**

Examines the major safety management issues that affect the workplace including safety awareness, loss control, regulatory issues, and human behavior modification. This course provides the student with a learning experience that results in consolidation and synthesis of the program competencies.

### **OSHT 2401 – OSHA Regulations—General Industry; 4 Credit Hours**

A study of Occupational Safety and Health Administration (OSHA) regulations pertinent to general industry.

### **EPCT 1305 – Environmental Regulations Overview; 3 Credit Hours**

Provides an introduction to the history of the environmental movement, including basic requirements for compliance with environmental regulations.

### **EPCT 1313 – Contingency Planning; 3 Credit Hours**

Provides an introduction to the development of an emergency response contingency plan for a facility or community. Emphasis is placed on analyzing the hazards, writing and implementing the contingency plans, and evaluating the effectiveness of the contingency plan.

### **EPCT 1341 – Principles of Industrial Hygiene; 3 Credit Hours**

Introduces basic concepts in threshold limits, dose response, and general recognition of occupational hazards, including sampling statistics, calibration, and equipment use. It also provides a study of the control of occupational hazards and sample collection and evaluation methods.