

# SAFETY TECHNOLOGY (SAFE)

## **SAFE 105, OSHA GENERAL SAFETY 10 HR 1 (1)**

The OSHA General Industry 10 Hour course is intended to provide entry level worker's general awareness on recognizing and preventing hazards in a general industry setting. Course is instructed by an OSHA recognized instructor. This course covers the outcomes covered in the Occupational Safety and Health Administration (OSHA) 10-Hour General Industry certificate

**General Education:** IN1, IN2, IN5

## **SAFE 110, COMBUSTIBLE DUSTS 1 (2)**

This course covers hazards surrounding combustible dust within general industry. Students will learn how to recognize and address hazards and risk associated with combustible dust, control electrical installation hazards, and create abatements and solutions to mitigate combustible dust fires and explosions. This course covers the outcomes covered in the Occupational Safety and Health Administration (OSHA) "Introduction to Combustible Dust Hazards (7120)" certificate. Laboratory required. (A special fee will be assessed.)

**General Education:** IN1, IN2

## **SAFE 116, GENERAL SAFETY MANAGEMENT I 2 (2)**

This course covers a myriad of topics including, bloodborne pathogens, health hazard awareness, and OSHA recordkeeping. This course covers the outcomes covered in the Occupational Safety and Health Administration (OSHA) "Blood Borne Pathogens Exposure Control for Healthcare Facilities (7200), Health Hazard Awareness (7205), and Recordkeeping Rule Seminar (7845) certificates.

**General Education:** IN1, IN2, IN5

## **SAFE 118, GENERAL SAFETY MANAGEMENT II 2 (2)**

This course covers a myriad of topics including introduction to Occupational Safety and Health Administration (OSHA) for small business, public warehousing and storage and introduction to safety and health management. This course covers the outcomes covered in the Occupational Safety and Health Administration (OSHA) "Introduction to OSHA for Small Business (7510), Public Warehousing & Storage (7005) and Introduction to Safety and Health Management (7500)" certificates.

**General Education:** IN1, IN2, IN5

## **SAFE 120, EMERGENCY PLANNING 2 (2)**

Worksite Disaster Response covers material involving the topics of Hazardous Materials for First Responder, pandemic Influenza and Introduction to Emergency & Evacuation Planning. Students will learn how to identify hazardous materials contamination and basic safety precautions. Topics include hazardous materials related terminology, basic protective procedures, information gathering, preparing for mass decontamination, constructing an emergency & evacuation plan, how to control and mitigate pandemic scenarios. This course covers the outcomes covered in the Occupational Safety and Health Administration (OSHA) "Evacuation and Emergency Planning (7105) and Pandemic Influenza Preparedness (7210)" certificates. (A special fee will be assessed.)

**General Education:** IN1, IN2, IN5

## **SAFE 130, RESPIRATOR PROTECTION 2 (3)**

This course is designed to teach the student how to establish, maintain and monitor a respiratory protection program. The class covers OSHA standards, NIOSH certification, and examples of respiratory protection programs, medical requirements, fit testing and more. This course covers the outcomes covered in the Occupational Safety and Health Administration (OSHA) "Respiratory Protection (2225)" certificate. Laboratory required. (A special fee will be assessed.)

**General Education:** IN1, IN2, IN5

## **SAFE 135, HAZWOPER 3 (4)**

Students will become aware of how to safely work in areas that have suffered environmental damage and environmental spills, and they will learn how to clean and protect that environment and environmental emergency situations. Specifically, the treatment, storage or disposal (TSD) operation regulated by 40 CFR parts 264 and 265 by state law authorized under RCRA, and required to have a permit or interim status from EPA pursuant to 40 CFR 270.1 or from a state agency pursuant to RCRA. This course covers the outcomes covered in the Occupational Safety and Health Administration (OSHA) "40 Hour HAZWOPER" (Hazardous Waste Operations and Emergency Response) certificate. Laboratory required. (A special fee will be assessed.)

**General Education:** IN1, IN2, IN5

## **SAFE 140, OSHA STANDARDS FOR GENERAL INDUSTRY 2 (3)**

This course covers OSHA standards, policies, and procedures in general industry. Topics include scope and application of the OSHA General Industry Standards, general industry principles and special emphasis on those areas in general industry which are most hazardous. Upon course completion students will have the ability to define general industry terms found in the OSHA General Industry Standards, identify hazards which occur in general industry, locate and determine appropriate OSHA General Industry Standards, policies and procedures, and describe the use of OSHA General Industry Standards and regulation to supplement an ongoing safety and health program. This course covers the outcomes covered in the Occupational Safety and Health Administration (OSHA) "Occupational Safety and Health Standards for General Industry (511)" certificate. Laboratory required. (A special fee will be assessed.)

**General Education:** IN1, IN2, IN5

## **SAFE 205, HAZARDOUS MATERIALS 2 (3)**

This course is designed to introduce student to the OSHA General Industry standards related to the use of hazardous materials. Topics range from flammable and combustible liquids to cryogenic liquids. Various workplace applications of these materials, including spraying, dipping, etc, are included in the discussion. Students will learn how to recognize, identify, move, store, and handle hazardous materials. This course covers the outcomes covered in the Occupational Safety and Health Administration (OSHA) "Hazardous Materials (2015)" certificate. Laboratory required. (A special fee will be assessed.)

**General Education:** IN1, IN2, IN5

## **SAFE 210, OSHA ACCIDENT INVESTIGATION 1 (1)**

This course reviews the relationship between OSHA and small businesses, how to properly conduct incident investigations, how to identify and implement proper safety and health management procedures in the workplace. This course covers the outcomes covered in the Occupational Safety and Health Administration (OSHA) "Introduction to Incident (Accident) Investigation (7505)" certificate. (A special fee will be assessed.)

**General Education:** IN1, IN2, IN5

**SAFE 215, FALL ARREST SYSTEMS 2 (3)**

Students will learn the OSHA Fall Protection Standard for construction and receive training on multiple fall protection methods. Topics include principles of fall protection, and elements and limitations of fall arrest systems. The course is taught through lecture instruction as well as workshops in small groups. This course covers the outcomes covered in the Occupational Safety and Health Administration (OSHA) "Fall Protection (3115)" certificate. Laboratory required. (A special fee will be assessed.)

**General Education:** IN1, IN2, IN4, IN5

**SAFE 220, OSHA ELECTRICAL STANDARDS 2 (3)**

This course is designed to provide the student with a survey of OSHA's electrical standards and the hazards associated with electrical installations and equipment. Topics include single-phase and three-phase systems, cord-connected and plug-connected and fixed equipment, grounding, ground fault circuit interrupters, and safety-related work practices. Emphasis is placed on electrical hazard recognition and OSHA policies and procedures. Students will receive instruction on safe and correct use of their electrical testing equipment. This course covers the outcomes covered in the Occupational Safety and Health Administration (OSHA) "Electrical Standards (3095)" certificate. Laboratory required. (A special fee will be assessed.)

**General Education:** IN1, IN2, IN5

**SAFE 225, OSHA GUIDE TO INDUSTRIAL HYGIENE 2 (3)**

Students will learn the applicable OSHA regulations and procedures involving Industrial Hygiene. This course aims to prepare student to recognize potential workplace health hazards and know how to correctly avoid, minimize, control, and/or eliminate said hazards where possible. Topics covered will include permissible exposure limits, OSHA health standards, respiratory protection measures, engineering controls, hazards communication, sampling procedures, and others. This course covers the outcomes covered in the Occupational Safety and Health Administration (OSHA) "OSHA Guide to Industrial Hygiene (521)" certificate. Laboratory required. (A special fee will be assessed.)

**General Education:** IN1, IN2, IN5

**SAFE 230, PRINCIPLES OF ERGONOMICS 1 (2)**

In this course, students discover the principles of ergonomics and related OSHA standards. Students are able to recognize, evaluate, control and/or abate workplace conditions that cause or contribute to musculoskeletal disorders. Core focus includes: work physiology, musculoskeletal disorders, risk factors, and others. This course covers the outcomes covered in the Occupational Safety and Health Administration (OSHA) "Principles of Ergonomics Applied to Work-Related Musculoskeletal and Nerve Disorders (2255)" certificate. Laboratory required. (A special fee will be assessed.)

**General Education:** IN1, IN2

**SAFE 235, MACHINE GUARDING BASICS 2 (3)**

This course familiarizes the student with various types of common machinery and the related safety standards. Guidance is provided on the hazards associated with various kinds of machinery and the control of hazardous energy sources (lock-out/tagout). The course presents an approach to machinery inspection that enables participants to recognize hazards and to provide options to achieve abatement. These hazards include mechanical motions and actions created by points of operation and other machinery processes. Also included is hand-on training in the laboratories. This course covers the outcomes covered in the Occupational Safety and Health Administration (OSHA) "Machinery and Machine Guarding Basics (2045)" certificate. Laboratory required. (A special fee will be assessed.)

**General Education:** IN1, IN2

**SAFE 240, LOCKOUT TAGOUT - CONTROLLING HAZARDOUS ENERGY 1 (1)**

This course covers the role and responsibility of the employer to develop and implement an energy control program, or lock-out/tag-out (LOTO) for the protection of workers while performing servicing hand maintenance activities on machinery and equipment. Upon course completion the student will have the ability to explain the importance of energy control programs, procedures, training, audits and methods of controlling hazardous energy. This course covers the outcomes covered in the Occupational Safety and Health Administration (OSHA) "Lockout Tagout (7115)" certificate. (A special fee will be assessed.)

**General Education:** IN1, IN2, IN5

**SAFE 245, PERMIT REQUIRED CONFINED SPACE 2 (3)**

Students completing this course will gain the knowledge to identify permit and non-permit required confined space, understanding of the OSHA confined space standards, conduct atmospheric testing of confined spaces, and implement a confined space program. This course covers the outcomes covered in the Occupational Safety and Health Administration (OSHA) "Understanding OSHA's Permit Required Confined Space Standard (2264)" certificate. Laboratory required. (A special fee will be assessed.)

**General Education:** IN1, IN2

**SAFE 287, WORK BASED LEARNING 1 - SAFE 1-3 (1)**

This course provides supervised work experience with approved employer(s) in an area related to the student's program. Emphasis is placed integrating classroom learning with work experience. Students will be able to evaluate career selections, demonstrate employability skills, and satisfactorily perform work-related competencies. Activities are coordinated and evaluated by college personnel. Course will be graded on the S/U basis.

**Course Entry Requirement(s):** A student must be pursuing an approved program at LCCC; have completed 15 semester hours with a minimum of six semester hours in the discipline of placement; have a minimum GPA of 2.5 in the discipline and a 2.0 overall GPA; have divisional approval

**Typically Offered:** Offer as required