

Department:

Welding Technology

Course Description:

Through a variety of classroom and /or lab learning and assessment activities, students in this course will: explain job /site safety and precaution for job/site hazards; determine the uses of personal protective equipment (PPE); identify the safety equipment and procedures related to safe work practices and environment; identify fire prevention and protection techniques; explore Hazardous Communications (HazCom) including Material Safety Data Sheets (MSDS).

Course Competencies:

Upon completion of the course, the student should be able to:

1. Explain job/site and precautions for job/site hazards.
2. Determine the uses of personal protective equipment (PPE).
3. Identify the safety equipment and procedures related to safe work practices and environment.
4. Identify fire prevention and protection techniques.
5. Explore Hazardous Communications (HazCom) including Material Safety Data Sheets (MSDS).

Course Content:

- A. Safety Overview
 1. Introduction to OSHA
 2. Safety and Health Program
 3. General Industry hazards
- B. Hazardous Materials Identification System (HMIS)
 1. Material Safety Data Sheets
 2. Color coding
 3. Numbering systems
- C. Personal protective equipment (PPE)
 1. Burns
 2. Head and eye protection
- D. Fire protection
 1. Fire watch
 2. Hot work permit

Learning Assessments:

Assessments may include: Quizzes, tests, project work, demonstrated competence, instructor observation, weekly assignments and/or written papers.

Instructional Materials:

Online Resource: [CareerSafe OSHA 10-hour Construction Industry Training](#).

Textbook: Moniz, B. J. (2015). *Welding Skills*, (5th ed.). Orland Park, IL: American Technical Publishers. ISBN-13: 978-0826930842

Gosse, J. F. (2015). *Welding Skills Workbook* (5th ed.). Orland Park, IL: American Technical Publishers. ISBN-13: 978-0826930859

Proctor, T.E. & Gosse, J. F. (2014). *Printreading for Welders* (5th ed.). Orland Park, IL: American Technical Publishers. ISBN-13: 978-0826930712

Guidelines for Requesting Accommodations Based on Documented Disability or Medical Condition

It is the intention of Highland Community College to work toward full compliance with the Americans with Disabilities Act, to make instructional programs accessible to all people, and to provide reasonable accommodations according to the law.

Students should understand that it is their responsibility to self-identify their need(s) for accommodation and that they must provide current, comprehensive diagnosis of a specific disability or medical condition from a qualified professional in order to receive services. Documentation must include specific recommendations for accommodation(s). Documentation should be provided in a timely manner prior to or early in the semester so that the requested accommodation can be considered and, if warranted, arranged.

In order to begin the process all students **must** complete the “Disabilities Self-Identification Form” on our [Disability Services website](#).

This form can also be accessed at the Highland Community College homepage under Students Services/Student Resources/Disability Service or by contacting the Disabilities Coordinator.

A Note on Harassment, Discrimination and Sexual Misconduct

Highland Community College seeks to assure all community members learn and work in a welcoming and inclusive environment. Title VII, Title IX, and College policy prohibit harassment, discrimination and sexual misconduct. Highland Community College encourages anyone experiencing harassment, discrimination or sexual misconduct to talk to report to the Vice President for Student Services, the Human Resources Director or complete an [online report](#) about what happened so that they can get the support they need and Highland Community College can respond appropriately.

There are both confidential and non-confidential resources and reporting options available to you. Highland Community College is legally obligated to respond to reports of sexual misconduct, and therefore we cannot guarantee the confidentiality of a report, unless made to a confidential resource. Responses may vary from support services to formal investigations. As a faculty member, I am required to report incidents of sexual misconduct and thus cannot guarantee confidentiality. I must provide our Title IX coordinator with relevant details such as the names of those involved in the incident. For more information about policies and resources or reporting options, please review our [Equity Grievance Policy](#).