WELD 1011  OSHA 10 Hour and Welding Safety II

Common Course Outline

Course Information

Description
This course is an expansion of the first part of OSHA 10 Hour and Welding Safety by including all of the Elective components of the curriculum. Topics that are focused on in this course include machine guarding, bloodborne pathogens, safety & health programs, and welding safety. (Prerequisite: WELD 1010)

Total Credits 1.00
Total Hours 16.00

Types of Instruction

Instruction Type Credits/Hours
Lecture 1 / 16

Pre/Corequisites

Prerequisite WELD 1010

Institutional Core Competencies

1 Analysis and inquiry: Students will demonstrate an ability to analyze information from multiple sources and to raise pertinent questions regarding that information.
2 Critical and creative thinking: Students will develop the disposition and skills to strategize, gather, organize, create, refine, analyze, and evaluate the credibility of relevant information and ideas.
3 Written and oral communication: Students will communicate effectively in a range of social, academic, and professional contexts using a variety of means, including written, oral, numeric/quantitative, graphic, and visual modes of communication.

Course Competencies

1 Describe machine guarding.
   Learning Objectives
   Describe at least two of the main causes of machine accidents.
   List three of the requirements for safeguards.
   List five machinery parts that pose hazards when unguarded or improperly guarded.
   List five types of machine guards.
   List three types of devices used to safeguard machines.
   Describe a situation that warrants machine guarding and an appropriate method of guarding the machine or part in order to prevent injury or accident.

2 Explain bloodborne pathogens.
Learning Objectives
List three examples of workers who are at risk of exposure to bloodborne pathogens.
List three ways exposure to bloodborne pathogens commonly occurs.
Describe five key aspects of a bloodborne pathogen exposure control plan.
Explain how properly used Personal Protective Equipment (PPE) and appropriate housekeeping methods protect against exposure to bloodborne pathogens.
List three steps to take if exposed to a bloodborne pathogen.

3 Identify information about safety and health programs.

Learning Objectives
Discuss the benefits of an effective safety and health program.
Name the four elements of an effective safety and health program.
Name three methods to prevent and control workplace hazards.

4 Describe welding safety.

Learning Objectives
Identify electrical shock hazard.
Identify proper methods of handling hot metal.
List dangerous conditions created by fumes and gasses.
Identify safety equipment and clothing to prevent damage or injury from arc rays.
List how electric and magnetic fields can affect implanted medical devices.

5 Practice welding safety.

Learning Objectives
Demonstrate safe procedures when chipping, wire brushing, and grinding.
Demonstrate proper use of ear protection.
Demonstrate proper handling of gas cylinders.

SCC Accessibility Statement
If you have a disability and need accommodations to participate in the course activities, please contact your instructor as soon as possible. This information will be made available in an alternative format, such as Braille, large print, or cassette tape, upon request. If you wish to contact the college ADA Coordinator, call that office at 507-389-7222.

Disabilities page [http://southcentral.edu/academic-policies/disability-rights.html](http://southcentral.edu/academic-policies/disability-rights.html)