**BARTON COMMUNITY COLLEGE**

**COURSE SYLLABUS**

# **GENERAL COURSE INFORMATION**

Course Number: WELD 1354

Course Title: Welding Safety/OSHA 10

Credit Hours: 1

Prerequisite:

Division/Discipline: Workforce Training and Community Education/Welding

Course Description: Through a variety of classroom and/or lab learning and assessment activities, students in this course will: explain job/site safety and precautions 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).

# **INSTRUCTOR INFORMATION**

# **COLLEGE POLICIES**

Students and faculty of Barton Community College constitute a special community engaged in the process of education. The College assumes that its students and faculty will demonstrate a code of personal honor that is based upon courtesy, integrity, common sense and respect for others both within and outside the classroom.

Plagiarism on any academic endeavors at Barton Community College will not be tolerated. The student is responsible for learning the rules of, and avoiding instances of, intentional or unintentional plagiarism. Information about academic integrity is located in the Student Handbook.

The College reserves the right to suspend a student for conduct that is determined to be detrimental to the College educational endeavors as outlined in the College Catalog, Student Handbook, and College Policy & Procedure Manual. (Most up-to-date documents are available on the College webpage).

Any student seeking an accommodation under the provisions of the Americans with Disability Act (ADA) is to notify Student Support Services via email at [disabilityservices@bartonccc.edu](mailto:disabilityservices@bartonccc.edu).

# **COURSE AS VIEWED IN THE TOTAL CURRICULUM**

This is one of a series of technical courses for the Welding Technology Certificate program. This course is designed to develop useful, job-oriented skills. It is highly recommended for individuals entering the fields of manufacturing, automotive and heavy equipment repair, or the machine trades.

This course is not intended for transfer.

# **ASSESSMENT OF STUDENT LEARNING**

Barton Community College assesses student learning at several levels:  institutional, program, degree and classroom.  The goal of these assessment activities is to improve student learning.  As a student in this course, you will participate in various assessment activities.  Results of these activities will be used to improve the content and delivery of Barton’s instructional program.

## Course Outcomes, Competencies, and Supplemental Competencies:

1. Explain job/site safety and precautions for job/site hazards
   1. Identify job tasks to be performed
   2. List possible hazards related to the task
   3. List precautions that need to be taken to safely perform tasks
2. Determine the uses of personal protective equipment (PPE)
   1. Describe the type of personal protective equipment (PPE)
   2. Describe the purpose of the personal protective equipment
   3. Describe benefit of personal protective equipment
3. Identify the safety equipment and procedures related to safe work practices and environment
   1. Describe industry standards applicable to walkways and working surfaces
   2. Describe industry standards fire hazards, protection and plans
   3. Describe industry standards electrical hazards, protections and plans
   4. Describe industry standards applicable to machine guarding
   5. Identify safe lockout and tagout practices
   6. Describe industry standards applicable to lifting
   7. Explain what assured grounding is
   8. Explain when GFCI is needed on a site
4. Identify fire prevention and protection techniques
   1. Interpret the fire classification system
   2. Identify the three components of a fire triangle
   3. Describe the purpose of various fire extinguishers
   4. Detail fire hazard potentials and system for preventing them
5. Explore Hazardous Communications (HazCom) including Material Safety Data Sheets (MSDS).
   1. Reference appropriate MSDS
   2. Identify the various sections of an MSDS and its purpose
   3. Identify the section and numbering of a container labeling system

# **INSTRUCTOR'S EXPECTATIONS OF STUDENTS IN CLASS**

1. **TEXTBOOKS AND OTHER REQUIRED MATERIALS**

# **REFERENCES**

# **METHODS OF INSTRUCTION AND EVALUATION**

1. **ATTENDANCE REQUIREMENTS**

# **COURSE OUTLINE**