MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

COURSE OUTLINE

Faculty are required to have the outline submitted to the Academic Affairs Office. The course outline is the form used for approval of new courses by the Collegewide Curriculum Committee.

DEPT. Plumbing        COURSE NO. PLMB 1115
COURSE TITLE Plumbing Welding
CATALOG DESCRIPTION The student will learn basic gas welding. The proper safety and usage of the equipment.

AUDIENCE Plumbing students who want to increase their knowledge of welding.

FULFILLS MN TRANSFER CURRICULUM AREA(S) (Leave blank if not applicable)
Area : by meeting the following competencies:
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PREREQUISITES OR NECESSARY ENTRY SKILLS/KNOWLEDGE: none
LENGTH OF COURSE 1 lecture/presentation 2 lab. 16 weeks
THIS COURSE IS USUALLY OFFERED:
Every other year ☐ fall ☒ spring ☐ summer ☐ undetermined ☐

Four goals are emphasized in course at Minnesota West Community & Technical College:

1) ACADEMIC CONTENT: This course focuses on the technical terms, methods, tests, inspections, and installations of the welding trade.
2) THINKING SKILLS: The student will accurately perform projects related to welding.
3) COMMUNICATIONS SKILLS: The student will begin to demonstrate appropriate communication with other plumbers and students in the plumbing field.
4) HUMAN DIVERSITY: The student will gain self-awareness regarding their feelings towards people of different cultures, value systems, and socioeconomic status.

TOPICS TO BE COVERED: This course will give the student knowledge of welding and provide skills to assist the student in the requirements of the workplace. Safety is the utmost importance in delivery of this course.

LIST OF EXPECTED COURSE OUTCOMES:
1. demonstrate various brazing and welding
2. arc weld a bead on plate
3. determine tip size
4. learn gas and cylinder safety
5. demonstrate various gas welds
6. learn proper safe attire
7. determine proper angles for weld strength
8. demonstrate thickness, tip size, and pressure
9. weld pipe tee
10. weld pipe elbow
11. test all weld strength
12. understand gas cutting
13. work in a professional safe manor
14. understand high and low heat soldering
15. understand technical terms
16. understand history of welding

LEARNING/TEACHING TECHNIQUES used in the course are:
- ☒ Collaborative Learning
- ☐ Problem Solving
- ☐ Student Presentations
- ☒ Interactive Lectures
- ☐ Lecture
- ☒ Films/Videos/Slides
- ☐ Demonstrations
- ☒ Individual Coaching
- ☐ Lab

ASSIGNMENTS AND ASSESSMENTS FOR THIS CLASS INCLUDE:
- ☒ Reading
- ☐ Tests
- ☒ Individual Projects
- ☐ Oral Presentations
- ☐ Worksheets
- ☒ Collaborative Projects
- ☐ Textbook Problems
- ☐ Papers
- ☒ Portfolio
- ☐ Group Problems
- ☐ Term Paper
- ☐ Other (describe below)

EXPECTED STUDENT LEARNING OUTCOMES: see above

The information in this course outline is subject to revision

To receive reasonable accommodations for a documented disability, please contact the campus Student Services Advisor or campus Disability Coordinator as arrangements must be made in advance. In addition, students are encouraged to notify their instructor.

Veteran Services: Minnesota West is dedicated to assisting veterans and eligible family members in achieving their educational goals efficiently. Active duty and reserve/guard military members should advise their instructor of all regularly scheduled military appointments and duties that conflict with scheduled course requirements. Instructors will make every effort to work with the student to identify adjusted timelines. If you are a veteran, please contact the Minnesota West Veterans Service Office.

This document is available in alternative formats to individuals with disabilities by contacting the Student Services Advisor or by calling 800-658-2330 or Minnesota Relay Service at 800-627-3529 or by using your preferred relay service.

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