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 1150

COURSE TITLE: Water Treatment Methods

CATALOG DESCRIPTION: This course will direct the student toward the problems of water and the recommended methods of treatment.

AUDIENCE: Plumbing students who want to increase their knowledge of water and its problems.

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, 1 lab per week for 16 weeks

THIS COURSE IS USUALLY OFFERED:
Every other year ☐ fall ☐ spring X summer ☐ undetermined ☐

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

1) ACADEMIC CONTENT: This course is designed to serve as an understanding level of many of the processes to be learned in the plumbing trade.
2) THINKING SKILLS: The student will accurately perform projects related to plumbing.
3) COMMUNICATIONS SKILLS: The student will begin to demonstrate appropriate communication with other plumbers and student 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 the plumbing trade and provide skills to assist the student in the requirements of the workplace.

LIST OF EXPECTED COURSE OUTCOMES:

1. define potable water
2. adjust softener
3. determine water quality
4. describe carbon filter
5. rebed equipment
6. explain chlorination
7. construct bypass
8. analyze hardness
9. install R.O.
10. explain filter
11. explain media types
12. explain water quality

LEARNING/TEACHING TECHNIQUES used in the course are:
X Collaborative Learning   X Problem Solving
X Student Presentations   X Interactive Lectures
□ Creative Projects   X Individual Coaching
X Demonstrations
□ Lab

ASSIGNMENTS AND ASSESSMENTS FOR THIS CLASS INCLUDE:
X Reading   X Tests   X Individual Projects
□ Oral Presentations   □ Worksheets   □ Collaborative Projects
X 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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