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 1120

COURSE TITLE  Plumbing Piping Water

CATALOG DESCRIPTION The student will become familiar with the types of water piping, the fittings, and the proper installation procedures. They will develop skills in joining and supporting various piping according to the Minnesota Plumbing Code.

AUDIENCE  Plumbing students who want to increase their knowledge of the plumbing water piping system.

FULFILLS MN TRANSFER CURRICULUM AREA(S) (Leave blank if not applicable)
Area : by meeting the following competencies:
Area N/A: by meeting the following competencies:
Area : by meeting the following competencies:

PREREQUISITES OR NECESSARY ENTRY SKILLS/KNOWLEDGE: none

LENGTH OF COURSE 1 semester, 1 lecture 2 lab. 16 weeks

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

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

1) ACADEMIC CONTENT: This course covers all the Minnesota Plumbing Code #4715
2) THINKING SKILLS: The student will accurately perform projects related to the plumbing charts #3800
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: Charts and graphs related to sizing the plumbing system. Then understanding of the written word of the code book.
LIST OF EXPECTED COURSE OUTCOMES:
1. demonstrate T-drill method
2. draw iso of the H2O mock up system
3. calculate piping offsets
4. draw house plan iso piping system
5. describe using crosslink pex piping
6. describe pressure piping
7. describe fire/torch safety
8. size H2O piping system
9. describe boring tools
10. demonstrate power tool safety
11. demonstrated pex joining materials
12. describe distribution piping
13. explain solder
14. explain H2O piping test
15. explain flux

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

ASSIGNMENTS AND ASSESSMENTS FOR THIS CLASS INCLUDE:
X   Reading  Tests  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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