

MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

COURSE OUTLINE

DEPT. PLMB

COURSE NUMBER: 1101

NUMBER OF CREDITS: 3

Lecture: 2 Lab: 1 OJT: 0

Course Title:

Introduction to Plumbing

Catalog Description:

Introduction to Plumbing Introduces students to the tools and equipment of the plumbing trade, the necessity of safety in the workplace and methods described in the Minnesota Plumbing Code. Students will study plastic piping. Plastic piping will involve the joining of drainage, waste and vent, water supply and distribution lines. Students will become familiar with the different types of copper pipe, fittings and tubing. PEX water and heating distribution piping will be discussed and utilized. Students will also explore water pumps.

Prerequisites or Necessary Entry Skills/Knowledge:

None

FULFILLS MN TRANSFER CURRICULUM AREA(S) (*Leave blank if not applicable*)

- Goal 1: Communication: By meeting the following competencies:
- Goal 2: Critical Thinking: By meeting the following competencies:
- Goal 3: Natural Sciences: By meeting the following competencies:
- Goal 4: Mathematics/Logical Reasoning: By meeting the following competencies:
- Goal 5: History and the Social and Behavioral Sciences: By meeting the following competencies:
- Goal 6: The Humanities and Fine Arts: By meeting the following competencies:
- Goal 7: Human Diversity: By meeting the following competencies:
- Goal 8: Global Perspective: By meeting the following competencies:
- Goal 9: Ethical and Civic Responsibility: By meeting the following competencies:
- Goal 10: People and the Environment: By meeting the following competencies:

Topics to be Covered

History plumbing and heating profession

Shop safety and Personal Protective Equipment use

Types and appropriate pipe types, metal and plastic

Use of hand, power cutting, measuring and pipe assembly tools

Joining pipe and pipe fittings

Student Learning Outcomes
Execute safe operating procedures of machines used in industry.
Discuss the history of plumbing profession.
Articulate safe working techniques and procedures.
Identify use and care of Personal Protective Equipment (PPE)
Identify types and sizes of copper pipe and fittings
Operate hand and power cutting and cleaning tools.
Join copper lines and fittings using proper tools and assembly techniques.
Identify plastic drain, waste and vent (DWV) and water supply pipe and fittings.
Join plastic pipe and fittings using proper tools and assembly techniques.

Is this course part of a transfer pathway: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

*If yes, please list the competencies below

Revised Date: 2/2022