

MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

COURSE OUTLINE

DEPT. PLMB

COURSE NUMBER: 1142

NUMBER OF CREDITS: 2

Lecture: 1 Lab: 1 OJT 0

Course Title:

Materials and Fittings

Catalog Description:

Materials and Fittings introduces the materials and fittings used in the plumbing trade, including copper, plastics, brass, Pex, Galvanized, cast iron and black iron. The application of these material types will be covered, as well as fitting names and their uses.

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

Proper use of various types of materials and fittings.

Design and layout of fittings in accordance with Minnesota Plumbing code.

Identify fitting names and their uses.

Student Learning

Demonstrate how to differentiate among the various types of copper.

Explain the applications of the various types of copper.

Explain the applications of the types of brass.

Differentiate the various types of plastics.
Demonstrate the applications of plastics.
Explain how to differentiate between the types of cast iron.
Explain the applications of the different types of cast iron.
Explain how to differentiate the types of black iron.
Explain the applications of the types of black iron.
Understand various other materials used.
Identify fittings by their proper names.
Demonstrate the proper use of fittings.
Demonstrate the applications of Galvanized pipe.
Explain the various types of Pex pipe.

Is this course part of a transfer pathway: Yes No

Revised Date: 2/1/2022