

Course discipline/number/title: FST 1530: Plumbing Theory

- A. CATALOG DESCRIPTION
1. Credits: 1
 2. Hours/Week: 1
 3. Prerequisites (Course discipline/number): None
 4. Other requirements: None
 5. MnTC Goals (if any): NA
- B. COURSE DESCRIPTION: This course covers various basic aspects of the plumbing trade. Consideration will be given to sanitary and waste systems including proper venting.
- C. DATE LAST REVISED (Month, year): December, 2021
- D. OUTLINE OF MAJOR CONTENT AREAS:
1. Plumbing Safety
 2. Tools
 3. Pipe (Copper, steel, PVC, PEX, CPVC, PE, ABS)
 4. Fitting Identifications
 5. Cast Iron - Lead and Oakum Joint
 6. Drainage, Waste and Vent
 7. Symbols
 8. Blueprint Reading
- E. LEARNING OUTCOMES (GENERAL): The student will be able to:
1. Recognize various plumbing materials.
 2. Understand proper joint preparation.
 3. Recognize pipe and fitting.
 4. Know how to properly identify pipe fittings.
 5. Understand vent systems.
 6. Critique plumbing installations.
 7. Read plumbing blueprints.
 8. Recognize various plumbing systems.
- F. LEARNING OUTCOMES (MNTC): NA
- G. METHODS FOR EVALUATION OF STUDENT LEARNING: Methods may include but are not limited to:
1. Assignments
 2. Exams
- H. RCTC CORE OUTCOME(S). This course contributes to meeting the following RCTC Core Outcome(s): Critical Thinking. Students will think systematically and explore information thoroughly before accepting or formulating a position or conclusion.
- I. SPECIAL INFORMATION (if any):
1. Student will be working with plumbing and hazardous materials