# Plumbing Technology Course No. 17058 Credit: 0.5

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| **Student name:**  |  | **Graduation Date:** |  |

Pathways and CIP Codes: **Construction & Design (46.0000) - Construction Strand**; Manufacturing (48.0000) - Maintenance Strand

Course Description: An **application level** course designed to provide students with instruction in installing waste and vent systems, water and gas pipes, trim, and fixtures. Skills taught include cutting and joining various types of pipes (for instance, steel, plastic) using various methods (cement, seat method, and so on). (Prerequisite: 17002/Carpentry.)

Directions:The following competencies are required for full approval of this course. Check the appropriate number to indicate the level of competency reached for learner evaluation.

**RATING SCALE:**

4. Exemplary Achievement: Student possesses outstanding knowledge, skills or professional attitude.

3. Proficient Achievement:Student demonstrates good knowledge, skills or professional attitude. Requires limited supervision.

2. Limited Achievement:Student demonstrates fragmented knowledge, skills or professional attitude. Requires close supervision.

1. Inadequate Achievement:Student lacks knowledge, skills or professional attitude.

0. No Instruction/Training:Student has not received instruction or training in this area.

**Prerequisite:** 17002 General Carpentry 1 or 17062 Mechanical/Electrical/Plumbing Trades (MEP 1)

## Benchmark 0: The following competencies are to be taught within ALL application level courses offered in your school's approved pathway.

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 0.1 | Demonstrate an understanding of industry standards for personal safety including the safe use of tools, equipment, and hazardous materials |  |
| 0.2 | Demonstrate time management skills. |  |
| 0.3 | Create and utilize employment documents including a resume and portfolio. |  |
| 0.4 | Demonstrate job seeking and interview skills. |  |
| 0.5 | Understand and respond to performance reviews. |  |

## Benchmark 1: plumbing skills application

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 1.1 | Demonstrate proper use of basic hand and power tools used in the plumbing trade. |  |
| 1.2 | Correctly measure, cut and join plastic, carbon steel and/or stainless steel piping/tubing. |  |
| 1.3 | Identify and install the most common types of sinks and toilets. |  |
| 1.4 | Identify and describe the functions of the major components of a water distribution system. |  |
| 1.5 | Identify and install pipe hangers and supports. |  |
| 1.6 | Identify the types of schedules and drawings used within the plumbing trade. |  |
| 1.7 | Demonstrate proper soldering techniques. |  |
| 1.8 | Identify different types of plumbing systems and their components. |  |
| 1.9 | Demonstrate proper safety procedures within the plumbing trade. |  |
| 1.10 | Troubleshoot and repair water supply, water heater, and water drainage problems. |  |

I certify that the student has received training in the areas indicated.

Instructor Signature:

For more information, contact:

CTE Pathways Help Desk

(785) 296-4908

pathwayshelpdesk@ksde.org



900 S.W. Jackson Street, Suite 102

Topeka, Kansas 66612-1212

[https://www.ksde.org](https://www.ksde.org/)

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