

COCONINO COMMUNITY COLLEGE

COURSE OUTLINE

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A. Identification:

1. Subject Area: Construction Technology Management
2. Course Number: CTM 111
3. Course Title: Plumbing
4. Credit Hrs: 3
5. Catalog Description:

This course will define the PLUMBER'S RESPONSIBILITY and introduce the student to the plumbing trade. Topics include plumbing plans, safety, plumbing materials and fittings, pipe joining techniques, drain-waste and vent systems, water supply systems, fixture installations and leak testing. Emphasis will be placed on safe operation of all trade tools and equipment and job site safety. Three lecture. May be taken for S/U credit.

B. Course Goals:

The student will apply knowledge gained to maintain repair and /or install various plumbing systems and fixtures in actual hands-on applications on training practice modules that is very close to real world installation situations.

C. Course Outcomes:

Students will:

1. Assess the Plumbing trade as a professional career path.
2. Interpret plumbing plans for a typical residence.
3. Determine the proper systems materials to use for a variety of installation scenarios.
4. Identify and describe commonly used residential system plumbing parts.
5. Design basic residential DWV and water supply systems.
6. Install basic DWV and water supply systems with fixtures in a training module under instructor supervision in teams and then individually for competency scores

D. Course Content:

Will include:

1. Introduction to shop plumbing tools.
2. Safe operation of all plumbing tools.
3. Plumbing plans.
4. Plumbing Materials for various applications

5. Plumbing Fittings identification
6. Drain, Waste and Vent (DWV) systems
7. Pipe joining of various materials
8. Water supply systems, sizing and installation.
9. Fixture installation practices.
10. Leak tests.