

ARIZONA WESTERN COLLEGE
SYLLABUS

PCT 105 INTRODUCTION TO PLUMBING TECHNOLOGY

Credit Hours: 3 Lec 2 Labs 2

PREREQUISITE: None

COURSE DESCRIPTION

Introduction to basic plumbing techniques, procedures and related safety for tools commonly used in plumbing settings.

1. COURSE GOAL

To gain knowledge basic plumbing technology, techniques, procedures and related safety on a jobsite.

2. OUTCOMES

Upon satisfactory completion of this course, students will be able to:

- 2.1 Identify and demonstrate proper safety procedures when working with pressurized systems.
- 2.2 Describe Occupational Safety and Health Administration (OSHA), Environmental Protection Agency (EPA) regulations that cover plumbing practices.
- 2.3 Demonstrate understanding of basic fixture symbols and placement of fixtures on site drawings, isometric drawings and construction plans related to basic soldered and glued piping joints.
- 2.4 Identify, select, and install proper materials used in plumbing applications for assemble and installation of soldered and glued joints for residential construction.
- 2.5 Develop fall prevention plans for a typical construction site.
- 2.6 Identify proper techniques and procedures for hand and power tools, power threaders, use of electrical cords, and related plumbing trades equipment.
- 2.7 Discuss and explain trenching and shoring safety.
- 2.8 Describe scaffold safety and maintenance procedures.
- 2.9 Identify personal protective equipment (PPE) including safety glasses, electrical protection, importance of GFCI protected electrical tools and equipment, shoes, hard hat and other practices.
- 2.10 Define safe methods and tools for lifting and moving materials and equipment to prevent personal injury and property damage.
- 2.11 Identify brazing and soldering safety procedures to prevent fires and personal injury and the use of a hot work permit.
- 2.12 Demonstrate proper procedures when working on natural gas and propane systems and use of hand/power threading equipment.
- 2.13 Demonstrate use of digital visual plumbing inspection equipment.

3. METHODS OF INSTRUCTION

- 3.1 Lecture
- 3.2 Lab activities
- 3.3 Demonstration

4. LEARNING ACTIVITIES

- 4.1 Class assignments
- 4.2 Lab participation

5. EVALUATION

- 5.1 Exams/ quizzes
- 5.2 Written assignments
- 5.3 Lab assignments

6. STUDENT RESPONSIBILITIES

- 6.1 Under AWC Policy, students are expected to attend every session of class in which they are enrolled.
- 6.2 If a student is unable to attend the course or must drop the course for any reason, it will be the responsibility of the student to withdraw from the course. Students who are not attending as of the 45th day of the course may be withdrawn by the instructor. If the student does not withdraw from the course and fails to complete the requirements of the course, the student will receive a failing grade.
- 6.3 Americans with Disabilities Act Accommodations: Arizona Western College provides academic accommodations to students with disabilities through AccessABILITY Resource Services (ARS). ARS provides reasonable and appropriate accommodations to students who have documented disabilities. It is the responsibility of the student to make the ARS Coordinator aware of the need for accommodations in the classroom prior to the beginning of the semester. Students should follow up with their instructors once the semester begins. To make an appointment call the ARS front desk at (928) 344-7674 or ARS Coordinator at (928) 344-7629, in the College Community Center (3C) building, next to Advising.
- 6.4 Academic Integrity: Any student participating in acts of academic dishonesty—including, but not limited to, copying the work of other students, using unauthorized “crib notes”, plagiarism, stealing tests, or forging an instructor’s signature—will be subject to the procedures and consequences outlined in AWC’s Student Code of Conduct.
- 6.5 Texts and Notebooks: Students are required to obtain the class materials for the course.
- 6.6 Arizona Western College students are expected to attend every class session in which they are enrolled. To comply with Federal Financial Aid regulations (34 CFR 668.21), Arizona Western College (AWC) has established an Attendance Verification process for “No Show” reporting during the first 10 days of each semester.
Students who have enrolled but have never attended class may be issued a “No Show” (NS) grade by the professor or instructor and receive a final grade of “NS” on their official academic record. An NS grade may result in a student losing their federal financial aid.
For online classes, *student attendance in an online class is defined as the following* (FSA Handbook, 2012, 5-90):
 - Submitting an academic assignment
 - Taking an exam, an interactive tutorial or computer-assisted instruction
 - Attending a study group that is assigned by the school
 - Participating in an online discussion about academic matters
 - Initiating contact with a faculty member to ask a question about the academic subject studied in the course