

ARIZONA WESTERN COLLEGE  
SYLLABUS

## WLD 127 WELDER CERTIFICATION AND CODE APPLICATION

Credit Hours: 6 Lec: 2 Lab: 8

PREREQUISITE: WLD 106

COURSE DESCRIPTION

Preparation for welder certification under the specific code: AWS-D-1.1.

1. COURSE GOAL

Develop skills acquired in Shielded Metal Arc Welding (SMAW) toward qualification and certification under the requirements of the American Welding Society (AWS) AWS-D1.1 Structural Welding Code.

2. OUTCOMES

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

- 2.1 Explain and demonstrate the methods used to select equipment, consumables and qualify weld procedures, certification of welder and the methods used to test and evaluate results of such test.
- 2.2 Demonstrate the correct weld techniques necessary to complete a weld test under the AWS-D1.1 Structural Welding Code using Shielded Metal Arc Welding (SMAW) with backing.
- 2.3 Demonstrate understanding of the need for, use of, and selection of criteria associated with fume control systems.

3. METHODS OF INSTRUCTION

- 3.1 Lecture
- 3.2 Demonstration
- 3.3 Instructional technology
- 3.4 Formal/informal discussion
- 3.5 Lab exercises

4. LEARNING ACTIVITIES

- 4.1 Lab exercises
- 4.2 Discussions
- 4.3 Demonstrations

5. EVALUATION

- 5.1 Written examination
- 5.2 Weld test

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 Students who are not attending as of the 45th day of the course may be withdrawn by the instructor.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 Accessibility 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