

WLDG 1528
Intro to Shielded Metal Arc Welding (5-3-6)

Western Texas College

- I. Basic Course Information
 - A. Course Description: An introduction to the shielded metal arc welding process. Emphasis placed on power sources, electrode selection, oxy-fuel cutting, and various joint designs. Instruction provided in SMAW fillet welds in various positions.
 - B. Any required prerequisites: None, Introductory
 - C. Required Grade for Enrolling in the Next Course in this Sequence: Satisfactory Completion
- II. Student Learning Outcomes
 - A. Select electrodes and amperage settings for various thicknesses of materials and welding positions
 - B. Define principles of arc welding
 - C. Explain electrode classifications
 - D. Perform SMAW operations in various positions using selected electrodes and different joint designs.
- III. Testing Requirements
 - A. The final exam will take place in the welding classroom.
 - B. Students are NOT allowed to use their book or but can use notes of any kind while taking their tests and exams.
 - C. Students are allowed to use a calculator.
- IV. Major Course Requirements
 - A. Attendance - 10%
 - B. Participation – 20%
 - C. Welding Fabrication Projects – 70%
- V. Information on Books and Other Course Materials
 - A. Required Book: none
 - B. Book ISBN:
 - C. Required Access Code: None
 - D. Calculators: Students must have a calculator that provides them with the trig function keys. A TI-30XA or its equivalent is strongly recommended.
- VI. Other Policies, Procedures and important dates. Please refer to the WTC [Catalog](#) for the following:
 - A. Campus Calendar
 - B. Final exam schedule
 - C. How to drop a class
 - D. Withdrawal information
 - E. Student Conduct/Academic Integrity
 - F. Class Attendance
 - G. Students with disabilities
- VII. Course Content WELD 1528

WEEKS	LAB REQUIREMENTS
1-16	All students will go through a variety of steps to learn about cutting different types of metals, what electrode to use as well as to weld in various positions
1-5	Cutting Metal Oxy

6-8	Oxy Weld
9	Brazing
10-16	Arc Welding
16	Final Exam Project

Last Modified: February 15, 2017