

WLDG 1457 — Intermediate Shielded Metal Arc Welding (SMAW)

Frank Phillips College

General Course Information

Credit Hours: 4

Prerequisite

Completion of WLDG 1428 with a grade of C or better or Industry Equivalent Experience, see Instructor.

Course Description

A study of the production of various fillets and groove welds. Preparation of specimens for testing various positions.

THECB Approval Number48.0508.0000

End-of-Course Outcomes

1. Identify principles of arc welding.
2. Describe arc welding operations of fillet and groove joints.
3. Explain heat treatments of low alloy steels.
4. Explain weld size and profiles.
5. Prepare test plates.
6. Perform fillet welds in the overhead position.
7. Perform air carbon arc weld removal.
8. Perform bevel groove welds with backing plates in various positions.
9. Demonstrate use of tools and equipment.

Methods of Evaluation

Evaluation, Testing, and Grade Distribution:

Exam 1 Codes & Qualification Standards	10 pts
Lab Exercise 1- Prep & Bevel	10 pts
Lab Exercise 2- 3 Position Backup Strap Test	30 pts
Lab Exercise 3- 3 Position Open Root Test	30 pts
Lab Exercise 4- Weld Evaluation	10 pts
Final Exam	10 pts

Total Points Possible 100

Category	Percentage
Attendance	60%
Exams	40%
Total	100%
Grade Scale	Grade
90 – 100	A
80 – 89	B
70 – 79	C

60 – 69	D
Below 60	F
Attendance Percentage	Grade
90 – 100	100
80 – 90	90
70 – 80	80
60 – 70	70
0 – 60	50

Academic Honesty and Integrity

Students attending Frank Phillips College are expected to maintain high standards of personal and scholarly conduct. Academic dishonesty including, but not limited to, cheating, collusion (working with anyone else to produce work for which you take credit without the professor’s permission), utilizing resources such as books and notes for a test without the professor’s permission, and plagiarism is considered a serious offense and may result in disciplinary actions including:

- A grade of 0 for the test or assignment
- A semester grade of F for the course
- Administrative withdrawal from the course
- Academic suspension
- Notation of the student’s transcript of “Academic Dishonesty.”
- ***Faculty members have the right to assign a failing grade to a student who is guilty of academic dishonesty at any point during a semester. Faculty members may prohibit a student from dropping a course when academic dishonesty is discovered. However, if a student has dropped the course in accordance with the rules and dates applied to dropping a course and prior to the discovery of academic dishonesty, the grade of W will stand. Students currently enrolled in a course and students who have completed a course (A, B, C, D, CT, and I) may have a grade changed to an F if academic dishonesty is discovered. The faculty member must notify the student of the change to the final grade within one week of facilitating the change. The student will have the opportunity to appeal the final grade change according to the college policy stated in the catalog.

Class Attendance*

Regular attendance is necessary for satisfactory achievement. Therefore, it is the responsibility of the student to attend class in accordance with requirements of the course as established by the instructor.

Students will be excused from class without penalty when either representing the college in an approved activity or having an approved reason for not attending. Reasons for absences must be approved by the instructor of the course. These exceptions do not relieve the student of the responsibility of making up the missed work as designated by the instructor concerned.

Students who enroll in one or more college-preparatory course(s) because of TSI deficiency will be administratively withdrawn from all classes if the course in which

they are excessively absent is their only preparatory course. For a student enrolled in more than one preparatory course, the student may be dropped from only the course affected by absences.

Any student who is absent from classes for the observance of a religious holy day shall be allowed to take an examination or complete an assignment scheduled for that day, provided that proper notification of the absence is given to the instructor of the course missed. The student should notify the instructor within the first fifteen (15) days of the semester that he or she intends to be absent on the specified holy day.

Welding Program Attendance Requirements*

Attendance at all class sessions is expected of all students. This is a significant part of instilling a good work ethic for future employers. For this reason if a student must be absent for any reason he/she will be required to notify a welding instructor(s) as soon as practical for each absence and its reason. If a student is absent from class for four unexcused absences they will be placed on the "Attendance Probation List" for the Welding Program. After six unexcused absences the student will be administratively withdrawn from the entire welding program.

Cell Phones and Other Electronic Devices Procedure:

Cell phones and electronic devices in the classroom create a distraction for both students and faculty. Cell phones are also considered suspicious during test taking. Therefore, Frank Phillips College outlines the procedure for handling cell phone usage in a classroom as follows:

1. First Offense: the student will be warned verbally by the instructor to turn off the cell phone or electronic device or by appropriate administrative personnel at distance sites. The instructor will make a notation of the infraction.
2. Second Offense: the student will be asked to leave the class period for the day and will receive zeroes for any work done in class on that day; a student receiving instruction through remote connection at an off-campus site will be required to attend the class face to face in Borger from this class date forward.
3. Third Offense: the student will be administratively withdrawn from the class in which the infraction occurred and will receive no refund for the class.

Students should leave the college's main number with an appropriate contact in case of an emergency.

Borger: (806) 457-4200, ext. 0 or 886-5047 after hours

Dalhart: (806) 244-7669

Perryton: (806) 648-1450

Grievance Policy

If you have a dispute concerning your grade or policies in this class, it is your responsibility to FIRST contact the instructor, either by e-mail or in person, to discuss the matter. Should things remain unresolved after this initial contact, please follow the

procedures described in the Academic Policies section of the Frank Phillips College Catalog. In the vast majority of cases, the matter can be resolved at the instructor/student level, and learning to communicate your concerns in a civilized manner is part of the college experience.

Important Information

Frank Phillips College is a Microsoft Office Campus. You must submit your electronic assignments in Microsoft Office programs only. If you do not have Microsoft Office, you may use one of the computer lab sites on campus for your class work.

Scans/Or Core Competencies That Will Be Addressed in the Class

Resources:

Allocates Time
Allocates Money
Allocates Material & Facility Resources

Information:

Acquires & Evaluates Information
Organizes & Maintains Information
Uses Computers to Process Information

Interpersonal:

Participates as a Member of a Team
Teaches Others
Serves Clients/Customers
Exercises Leadership
Negotiates to Arrive at a Decision
Works with Cultural Diversity

Thinking Skills:

Creative Thinking
Decision Making
Problem Solving
Seeing Things in the Mind's Eye
Knowing How to Learn
Reasoning

Technology:

Selects Technology
Applies Technology
Maintains & Troubleshoots Technology

Systems:

Understands Systems
Monitors & Corrects Performance
Improves & Designs Systems

Basic Skills:

Reading
Writing
Arithmetic
Mathematics
Listening & Speaking

Personal Qualities:

Responsibility
Self-Esteem
Sociability
Self-Management
Integrity/Honesty