

WLDG - 1428

Introduction to Shielded Metal

Arc Welding (SMAW)

CLARENDON COLLEGE-Clarendon College Welding Building

Course Name: Introduction to Shielded Metal Arc Welding

WLDG - 1428

Credit Hours: 4

Semester: Fall 2010-2011

Classroom Location: Clarendon College Welding Building

Instructor: Luttrell

Course Description:

An introduction to the shielded metal arc welding process. Emphasis placed on electrode selection, various joint designs and arc welds in various positions.

Required Instructional Materials:

Classroom and shop verbal instructions and hands on training.

Student Requirements:

- 1 Proper Attire for Welding-Long sleeved shirt, 100% cotton, Boots no laces, NO shorts.**
- 2 Safety Glasses**
- 3 Welding Helmet NOT self-darkening**
- 4 Leather Gloves**

Methods of Instruction: A combination of lectures, demonstrations, presentations and hands on activities.

Course Objectives:

To learn how to effectively weld using the shielded metal arc welding process.

Students will learn:

- 1 How to safely work with Arc Welding equipment**
- 2 How select electrodes for various welds**
- 3 How to weld in various positions (Flat and Horizontal)**

Grading Policies:

Daily/class participation/application	60%
1 Following safety rules	
2 Utilizing complete class time	
3 Practicing various skills	
4 Cleanup of workstation	
Skill assessment Tests	40%

The final semester grades will be figured as set in the current catalog:

90 to 100 = A 80 to 89 = B 70 to 79 = C 60 to 69 = D Below 59 =
F

A student's final grade will be made available through Campus Connect at Clarendon College's website.

Classroom Policies:

Classroom Conduct: Cell phone use: Students are not to have a cell phone out during class, and the ringer is to be placed on off or vibrate. Absolutely NO horseplay.

Failure to comply with lawful direction of a classroom instructor is a disruption for all students enrolled in the class. Cheating violations include, but are not limited to: (1) obtaining an examination, classroom activity, or laboratory exercise by stealing or collusion; (2) discovering the content of an examination, classroom activity, laboratory exercise, or homework assignment before it is given; (3) using an unauthorized source of information during an examination, classroom activity, laboratory exercise, or homework assignment; (4) entering an office or building to obtain unfair advantage; (5) taking an examination for another person; (6) completing a classroom activity, laboratory exercise, homework assignment, or research paper for another person; (7) altering grade records; (8) using any unauthorized form of electronic communication device during an examination, classroom activity, or laboratory exercise; (9) Plagiarism. Plagiarism is the using, stating, offering, or reporting as one's own, an idea, expression, or production of another person without proper credit.

Disciplinary actions for cheating in a course are at the discretion of the individual instructor. The instructor of that course will file a report with the Dean of Students when a student is caught cheating in the course, whether it be a workforce or academic course. The report shall include the course, instructor, student's name, and the type of cheating involved. Students who are reported as cheating to the Dean of Students more than once shall be disciplined by the Dean. The Dean will notify all involved parties within fourteen days of any action taken.

American with Disabilities Act Statement: Clarendon College provides reasonable accommodations for persons with temporary or permanent disabilities. Should you require special accommodations, notify the Office of Student Services (806-874-3571 or 800-687- 9737). We will work with you to make whatever accommodations we need to make.

Dropping a Course:

A student who is enrolled in a developmental course for TSI purposes may not drop his/her only developmental course unless the student completely withdraws from the college. A student may drop any other course with a grade of "W" any time after the census date for the semester and on or before the end of the 12th week of a long semester, or on or before the last day to drop a class of a term as designated in the college calendar. The request for permission to drop a course is initiated by the student by procuring a drop form from the Office of Student Services. (Refer to other policies concerning this issue in the current college catalog online.)

According to Texas state law a student is only allowed to drop the same class twice before he/she will be charged triple the tuition amount for taking the class a third time or more. Furthermore, beginning with the Fall 2007 semester, students in Texas may only drop a total of 6 courses throughout their entire undergraduate career. After the 6th dropped class, he/she will no longer be able to withdraw from any classes.

Withdrawal from College:

When a student finds it necessary to withdraw from school before the end of the semester, he or she should obtain a withdrawal form from the Office of Student Services. Students may also

withdraw from the college by sending a written request for such action to the Registrar's Office. The request must include the student's signature, the student's current address, social security number and course information details. Students who withdraw after the census date for the semester and on or before the end of the 12th week of a long semester, or on or before the last day to drop a class of a term as designated in the college calendar will be assigned a grade of "W." If you do not go through the formal withdrawal procedure, you will receive a grade of "F" on your transcript.

Tentative Course Schedule/Outline:

- I. Safety in Shielded Metal Arc Welding

- II. Shielded Metal Arc Welding (.25 plate)
 - ☉ Stringer Bead Flat Weld
 - Lap Joint, Flat Weld
 - Tee Joint, Flat Weld
 - Butt Joint, Flat Weld

- III. Shielded Metal Arc Welding (.25 plate)
 - 1 Stringer Bead, Horizontal Position Weld
 - 2 Lap Joint, Horizontal Position Weld
 - 3 Tee Joint, Horizontal Position Weld
 - 4 Butt Joint, Horizontal Position Weld