

WLDG – 1457

Intermediate Shielded Metal Arc Welding (SMAW)

CLARENDON COLLEGE-Childress Center

**Course Name: Intermediate Shielded Metal Arc Welding
WLDG – 1457**

Credit Hours: 4

Semester: Fall Only

Classroom Location: Childress High School Ag. Building

Instructor: Novak

Course Description:

A study of the various fillet and groove welds. Emphasis on vertical and overhead welding using various welding electrodes.

Required Instructional Materials:

- **Hobart Institute of Welding Technology Teaching Module on Arc Welding. (Supplied by CISD)**
- **Textbook: *Metal Fabrication Technology for Agriculture*, Thomson/Delmar Learning. (Supplied by CISD)**
- **Instructional Materials Services – Materials over Arc Welding. (Supplied by CISD)**

Student Requirements:

- **Proper Attire for Welding**
- **Safety Glasses (Supplied by CISD)**
- **Welding Helmet (Supplied by CISD)**
- **Leather Gloves (Supplied by CISD)**

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

Course Objectives:

To learn how to effectively weld in the vertical and overhead positions using the shielded metal arc welding process.

Students will learn:

- **How to safely work with Arc Welding equipment**
- **How select electrodes for various welds**
- **How to weld in various positions (Vertical and Overhead)**

Grading Policies:

Daily/class participation/application: 60%

- **Following safety rules**
- **Utilizing complete class time**
- **Practicing various skills**
- **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

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.)

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."

Classroom requirements:

The operation of cell phones, MP3 type devices, personal computers, or any other such devices is strictly prohibited during class sessions. The result of such use will result in a zero grade for the event (quiz/test) for that day including final exam day. Cheating, plagiarism or other dishonest acts shall be dealt with to the extent of dismissal from the class permanently on a case by case basis. Under no circumstance will an individual be exonerated after a second incidence, but will be immediately dropped.

Any missed quizzes or exams must be taken within 1 week of the date missed. It is the student's full responsibility to make arrangements to make up a quiz or exam at a time agreeable to the instructor. The Final exam will be taken on the prescribed day or arranged day prior to the final exam. No exceptions.

Tentative Course Schedule/Online:

I. Safety in Shielded Metal Arc Welding

II. Shielded Metal Arc Welding (.25 plate)

- **Stringer Bead Vertical Weld**
- **Lap Joint, Vertical Weld**
- **Tee Joint, Vertical Weld**
- **Butt Joint, Vertical Weld**

III. Shielded Metal Arc Welding (.25 plate)

- **Stringer Bead, Overhead Position Weld**
- **Lap Joint, Overhead Position Weld**
- **Tee Joint, Overhead Position Weld**
- **Butt Joint, Overhead Position Weld**