

Clarendon College

Industrial Maintenance Syllabus

Course Name: WLDG 1307 Introduction to Welding

Credit Hours: 3 sem hrs; 2 lec, 4 lab (96hrs)

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Course Level: Introductory

Prerequisites/Co-requisites: N/A

Course Description: Basic welding techniques using some of the following processes: Oxy-fuel welding (OFW) and cutting, shielded metal arc welding (SMAW), gas metal arc welding (GMAW), and gas tungsten arc welding (GTAW).

Learning Outcomes: The Student Will –

- Demonstrate machine set-up.
- Complete welds and cutting operations.
- Demonstrate basic shop safety.
- Demonstrate brazing operations.
- Demonstrate soldering operations.
- Identify types of electrodes used in welding processes.
- Identify various welding and cutting standards.
- Demonstrate proper joint preparation techniques.

Grades and Assessment Methods:

A = 90-100%
B = 80-89%
C = 70-79%
D = 60-69%
F = below 60%

Chapter Tests	= 35%
Lab Exercises	= 35%
Attendance	= 10%
Final Exam	= 20%
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Total	= 100%

Class Policy:

- **Attitude** – Have a good attitude in class. This is important for the learning process. Be respectful of others in class. Horseplay will not be permitted in the classroom and especially the lab area. Follow all safety procedures. Notify your instructor **BEFORE** any circuit is energized or equipment turned on. At the end of class all tools must be returned to their proper place and the student must clean up any mess they made.
- **Attendance** - Attendance is required. All unexcused absences will result in 10 points being deducted from the students attendance grade for the first three absences, the fourth absence will result in an attendance grade of zero. The student is responsible for turning in assignments and making up any work missed. Please notify your instructor as soon as you realize you will need to miss a class.
- **Attention** – It is very important that you pay attention during instruction time and especially during lab time. This is essential not only for the learning process, but also for your safety. Food and tobacco products are not allowed in the classroom or lab. Drinks will not be allowed in the lab. Cell phones must be silenced during class and any kind of MP3 device will not be allowed in classroom or lab.

Supplies:

Student will need a pencil, notebook paper, and wear proper clothing and PPE for course.

Text:

Oxyfuel Operations, Joining, Cutting, and Surfacing, Schoolcraft Welding Series 118

Tentative Schedule: This is a self-paced “Competency Based” course. This schedule will give you some general guidelines to help keep you on track. It will be your responsibility to keep on track in order to complete this course by the end of the semester. Your instructor will help you along the way and encourage you if you start to fall behind.

- Week 1 Introduction to course, Syllabus, Course Expectations
- Week 2 Textbook: Chapter 1 Welding Ferrous Metals
- Week 3
- Week 4 Textbook: Chapter 2 Welding Nonferrous Metals
- Week 5
- Week 6 Textbook: Chapter 3 Oxygen Cutting
- Week 7
- Week 8 Textbook: Chapter 4 Brazing and Soldering
- Week 9
- Week 10 Textbook: Chapter 5 Surfacing Techniques
- Week 12
- Week 13 SMAW
- Week 14 GMAW
- Week 15 GTAW
- Week 16 **Final Exam**

Teams:

You will be allowed to work independently during lab time if at all possible, but it is highly likely that all labs will be done in teams of two because of the size of classes, the number of trainers available and the limited time we have in class. In the workplace you will often find yourself working with a partner or a group especially on major projects, therefore, it is important that you learn how to work at a team. Please follow these basic principles when working in teams.

- Split the workload evenly. Some people have a tendency to take a project over and do all the work, while others have a tendency to sit back and watch. Neither tendency is fair to your partner.
- Communicate openly. Communication is key when working together. Talk about what you are about to do, and how you will proceed. Make sure you both understand the assignment before you start.
- Settle conflict quickly. If you disagree on something, find a way to compromise and fix the problem. If you can't settle it quickly and in a fair manner, get help from another student or go to your instructor.
- Have a good attitude. In life, work and school, it's all about attitude. Decide right now that this is going to be fun and you are going to learn. No matter what your level of knowledge about the subject, your attitude will determine how well you do and what you get out of the course. Even in the workplace your attitude will determine how well you do your job, and the type of relationship you have with co-workers and supervisors. This can be a fun learning experience that will lead to a rewarding career, or a total waste of time. It's your choice.

If you experience problems:

If you are having problems with the course material, time issues, personal problems, or you need to make up work, talk to your instructor. Don't just quit coming to class or drop the course. Most problems can be worked out. If a problem does arise that cannot be solved and it becomes evident that you will not be able to complete the course, follow the procedures in the college catalog to drop the class. If you just quit coming to class you will receive an F on your transcript, which will have a permanent effect on your grade point.

Withdrawal:

If you decide that you are unable to complete this course or that it will be impossible to complete the course with a passing grade, you may drop the course and receive a "W" on our transcript instead. Withdrawal from a course is a formal procedure that you must initiate. If you do not go through the formal withdrawal procedure, you will receive a grade of "F" on your transcript. A student is permitted to drop a course if he/she obtains an official drop slip from the office and has the instructor sign the slip before the 12th class week.

Remember, 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 course, he/she will no longer be able to withdraw from any classes.

Classroom Policies:

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 Vice-President of Student Services when a student is caught cheating in the course, whether it be a work-force 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 Vice-President of Student Services more than once shall be disciplined by the Vice-President of Student Services. The Vice-President of Student Services 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."

Student Rights and Responsibilities:

A copy of the Student Rights and Responsibilities is available on the College website at: <http://www.clarendoncollege.edu/Resources/Student%20Services/StudentRightsResponsibilities.pdf>.