

Course Syllabus

NOTE: This syllabus is subject to change during the semester. Please check this syllabus on a regular basis for any updates.

Department : Welding Technology
Course Title : Intro. to Pipe Welding
Section Name : WLDG_1435_ 11013, 6245
Start Date : 08/27/2012
End Date : 12/11/2012
Modality : FACE-TO-FACE
Credits : 4 (2-6)

Instructor Information

Name : James Mosman
OC Email : jmosman@odessa.edu
OC Phone # : (432) 335-6474

Course Description

An introduction to welding of pipe using the shielded metal arc welding process (SMAW), including electrode selection, equipment setup, and safe shop practices. Emphasis on weld positions 1G and 2G using various electrodes.

Prerequisites/Corequisites

Prerequisite: WLDG 1421 or instructor's consent

ICO's

1, 3, 5

Course Objectives

The student will describe equipment and required pipe preparation and perform 1G and 2G welds using various electrodes. Student will be required to evaluate their performance abilities to troubleshoot potential problems. Student will learn to decipher coding system for AWS and proper use of available materials and equipment.

ACADEMIC ETHICS:

Each student is expected to do their own work on the assignments, and take tests without outside assistance. If unethical behaviour is detected, by Odessa College Policy, all parties involved may either be denied credit for the project, or at the instructor's discretion, the student(s) may be dropped from the class. A report will be made to the department chairman for further action as deemed necessary by the department chair.

Required Readings/Materials

a) You must purchase the following **required** readings/materials:

Text required. Pipe Welding Procedures ISBN 0---8311---3141---1

1. Welding Hood with shade 10 or darker lens or auto-dark lens
2. Welding Cap
3. Welding Gloves
4. Safety Glasses or Goggles or Face Shield
5. Cutting Goggles or Face Shield
6. Spark striker
7. Chipping hammer
8. Hand Wire Brush
9. Stainless Steel Hand Wire Brush
10. MIG Pliers / Welpers
11. Combination Square

All students must have equipment prior to 3rd class period or arrangements made with instructor.

Course Requirements (Lectures, Assignments and Assessments)

1. Take all tests
 2. Complete all homework assignments
 3. Complete all welds in assigned order
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Summary of Assignments & Activities

* NOTE: The due dates are subject to change. Please check this syllabus on a regular basis for any updates.

Item(Name)	Type	Description
1. Class Introduction, Safety Orientation	Lecture/Video/Exam	Students will be introduced to welding program, lab safety, class requirements. Safety Exam.
2. Chap 1	Lecture/Lab/	Overview of Pipe welding processes.
3. Chap 2, Pipe to Plate	Lecture/Lab/	Review SMAW, Cut material for 2F welds
4. Pipe to Plate	Lab	2 F Welds
5. Chap 3, Pipe to Plate	Lecture/Lab/	Heat Input of welding, 3F welds
6. Pipe to Plate	Lab	3F welds
7. Pipe to Plate	Lab	4F welds
8. Review/ Pipe to Plate	Lecture/Lab	Review section 1/ Complete Pipe to Plate welds
9. Complete section 1 welds/ Exam 1	Lecture/Lab/Exam	Complete section 1
10. Chap 8, 1G	Lecture/Lab	Welding thin wall pipe, cut and fit for 1G
11. 1G welding	Lab	Weld pipe in 1G position
12. Chap 5, 1G welding	Lecture/Lab	Intermediate and cover passes, 1G test
13. 1G test	Lab	Complete 1G pipe weld test
14. Chap 9, 2G welding	Lecture/Lab	Horizontal pipe welding, 2G
15. 2G welding	Lab	Weld pipe in 2G position
16. 2G test	Lab	Complete 2G pipe weld test
17. Review Section 2	Lecture/Lab	Complete 2G welding
18. Section 2 Exam	Lab/Exam	Complete Section 2 welds
19. 5G welding	Lecture/Lab	Weld pipe in 5G position
20. Chap 7, 5G welding	Lecture/Lab	Pipe welding defects, 5G welding
21. 5G welding	Lab	Weld pipe in 5G position
22. 5G welding	Lab	Weld pipe in 5G position
23. Chap 8, 5G welding	Lecture/Lab	Pipe Fit-up, Begin 5G test
24. 5G test	Lab	Complete 5G pipe test

25. Chap 9, 6G welding	Lecture/Lab	Codes & Qualifications, Weld pipe in 6G position
26. 6G welding	Lab	Weld pipe in 6G position
27. 6G welding	Lab	Weld pipe in 6G position
28. 6G welding	Lab	Test in 6G position
29. 6G welding	Lab	Test in 6G position
30. Final Review & Clean-up	Lecture /Lab	Final Review. Clean-up Lab.
31. Final Exam	Exam	Take final comprehensive written exam.

Grading Policy

METHOD OF EVALUATION:

Homework	20%
Section Quiz	20%
Lab Work	40%
Professionalism	10%
Final Exam	10%
Total Grade	100%

90 – 100 = A

80 – 89 = B

70 – 79 = C

61 – 69 = D

Below 61 = F

Special Needs

Odessa College complies with Section 504 of the Vocational Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. If you have any special needs or issues pertaining to your access to and participation in this or any other class at Odessa College, please feel free to contact me to discuss your concerns. You may also call the Office of Disability services at 432-335-6861 to request assistance and accommodations.

Learning Resource Center (Library)

The Library, known as the [Learning Resources Center](#), provides research assistance via the [LRC's catalog \(print books, videos, e-books\)](#) and [databases \(journal and magazine articles\)](#). [Research guides](#) covering specific subject areas, [tutorials](#), and the ["Ask a Librarian"](#) service provide additional help.

Student E-mail

Please access your [Odessa College Student E-mail](#), by following the link to either set up or update your account: <http://www.odessa.edu/gmail/>. **All assignments or correspondence will be submitted using your Odessa College email.**

Student Portal

Please access your [Odessa College Student E-mail](#), by following the link to either set up or update your account: <http://www.odessa.edu/gmail/>. **All assignments or correspondence will be submitted using your Odessa College email.**

Technical Support

For Blackboard username and password help and for help accessing your online course availability and student email account contact the Student Success Center at 432-335-6878 or online at https://www.odessa.edu/dept/ssc/helpdesk_form.htm.

Important School Policies

For information regarding student support services, academic dishonesty, disciplinary actions, special accommodations, or student's and instructors' right to academic freedom can be found in the [Odessa College Student Handbook](#).

The Odessa College Student Success Coaches will help you stay focused and on track to complete your educational goals. If an instructor sees that you might need additional help or success coaching, he or she may submit a Retention Alert or a Starfish Alert. A Student Success Coach will contact you to work toward a solution.

Expectations for Engagement – Online Learning

To help make the web-based learning experience fulfilling and rewarding, the following Expectations for Engagement provide the parameters for reasonable engagement between students and instructors for the online learning environment. Students and instructors are welcome to exceed these requirements.

Reasonable Expectations of Engagement for Instructors

1. As an instructor, I understand the importance of clear, timely communication with my students. In order to maintain sufficient communication, I will
 - provided my contact information at the beginning of the syllabus;
 - respond to all messages within 24 hours if received Monday through Thursday and within 48 hours if received Friday through Sunday; and,
 - notify students of any extended times that I will be unavailable and provide them with alternative contact information (for me or for my supervisor) in case of emergencies during the time I'm unavailable.
2. As an instructor, I understand that my students will work to the best of their abilities to fulfill the course requirements. In order to help them in this area, I will
 - provide clear information about grading policies and assignment requirements in the course syllabus, and
 - communicate any changes to assignments and/or to the course calendar to students as quickly as possible.
3. As an instructor, I understand that I need to provide regular, timely feedback to students about their performance in the course. To keep students informed about their progress, I will
 - post grades for discussion postings within one week of the discussion thread closing.
 - provide grades for major assignments within 2 weeks of the due date or at least 3 days before the next major assignment is due, whichever comes first.

Reasonable Expectations of Engagement for Students

1. As a student, I understand that I am responsible for keeping up with the course. To help with this, I will
 - line up alternative computer and internet access in case my primary computer crashes or my internet services is unavailable;
 - recognize that the college provides free wi-fi and computer labs during regular campus hours to help me with accessing my course; and,

- understand that my instructor does not have to accept my technical issues as a legitimate reason for late or missing work if my equipment or service is unreliable.
2. As a student, I understand that it is my responsibility to communicate quickly with the instructor any issue or emergency that will impact my involvement with or performance in the class. This includes, but is not limited to
 - getting “kicked off” of the system during tests or quizzes;
 - having trouble submitting assignments; and
 - dealing with a traumatic personal event.
 3. As a student, I understand that it is my responsibility to understand course material and requirements and to keep up with the course calendar. While my instructor is available for help and clarification, I will
 - seek out help from my instructor and/or from tutors;
 - ask questions if I don’t understand; and,
 - access my course several times during the week to keep up with assignments and announcements.

Expectations for Engagement – Face to Face Learning

To help make the learning experience fulfilling and rewarding, the following Expectations for Engagement provide the parameters for reasonable engagement between students and instructors for the learning environment. Students and instructors are welcome to exceed these requirements.

Reasonable Expectations of Engagement for Instructors

1. As an instructor, I understand the importance of clear, timely communication with my students. In order to maintain sufficient communication, I will
 - provided my contact information at the beginning of the syllabus;
 - respond to all messages in a timely manner through telephone, email, or next classroom contact; and,
 - notify students of any extended times that I will be unavailable and provide them with alternative contact information (for me or for my supervisor) in case of emergencies during the time I’m unavailable.
2. As an instructor, I understand that my students will work to the best of their abilities to fulfill the course requirements. In order to help them in this area, I will
 - provide clear information about grading policies and assignment requirements in the course syllabus, and
 - communicate any changes to assignments and/or to the course calendar to students as quickly as possible.
3. As an instructor, I understand that I need to provide regular, timely feedback to students about their performance in the course. To keep students informed about their progress, I will
 - return classroom activities and homework within one week of the due date and
 - provide grades for major assignments within 2 weeks of the due date or at least 3 days before the next major assignment is due, whichever comes first.

Reasonable Expectations of Engagement for Students

1. As a student, I understand that I am responsible for keeping up with the course. To help with this, I will
 - attend the course regularly and line up alternative transportation in case my primary means of transportation is unavailable;
 - recognize that the college provides free wi-fi, computer labs, and library resources during regular campus hours to help me with completing my assignments; and,
 - understand that my instructor does not have to accept my technical issues as a legitimate reason for late or missing work if my personal computer equipment or internet service is unreliable.
2. As a student, I understand that it is my responsibility to communicate quickly with the instructor any issue or emergency that will impact my involvement with or performance in the class. This includes, but is not limited to,
 - missing class when a major test is planned or a major assignment is due;
 - having trouble submitting assignments;
 - dealing with a traumatic personal event; and,
 - having my work or childcare schedule changed so that my classroom attendance is affected.
3. As a student, I understand that it is my responsibility to understand course material and requirements and to keep up with the course calendar. While my instructor is available for help and clarification, I will
 - seek out help from my instructor and/or from tutors;
 - ask questions if I don't understand; and,
 - attend class regularly to keep up with assignments and announcements.

The SEI process for face-to-face and online courses is scheduled for the week of November 26th.