

## WLDG-1435-103CL Introduction to Pipe Welding Summer 2024 MTW. 8:00AM -12:00PM

Instructor: VICTOR WOODS, <u>vwoods@com.edu</u>, 409-933-8380 or 409-933-8321

Student hours and location Mon-Wed 7:30am-8:00am and Th 8:00Am-9:30AM Welding Technology Office

**Required Textbook:** Welding Principles and Applications (Larry Jeffus) (ISBN-13: 978-1-111-03918-9) (ISBN-10: 1-111-03918-6) (ISBN-13: 978-1-111-03917-2) (ISBN-10: 1-111-03917-8) The Hard back and Lab book is required.

#### **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

# Course requirements:

Course requirements/Lab Assignments WLDG_1435	Performance Rating	Date Completed	Instructors Initials	Trainees Initials
1. Demonstrate equipment safety checks. SPOL				
2. Describe equipment and required pipe preparation- SPOL				
<ol> <li>Perform 1G non fixed weld using various electrodes 5P+ E6010 1/8" diameter root pass, hot pass, E7018 3/32 diameter filler, and cap. SPOL</li> </ol>				
<ol> <li>Perform 2G non fixed weld using E60105P+ 1/8" diameter root hot pass, E7018 3/32 diameter filler, and cap. SPOL</li> </ol>				

<ul> <li>5. Perform a 2G fixed position on 6" carbon steel pipe using E 60105P+ 1/8" diameter root hot pass, E7018 3/32 diameter filler, and cap. SPOL</li> </ul>		
<ul> <li>6. Perform 5G non-fixed position 6" carbon steel pipe using E6010 P+ 1/8" diameter root pass, hot pass, E7018 3/32 diameter filler pass, and cap.</li> </ul>		
<ul> <li>7. Perform a 5G fixed on 6" carbon steel pipe using E60105P+ 1/8" diameter root pass, hot pass, E7018 3/32" diameter filler and cap. All welds must be done in uphill position.</li> </ul>		

#### **Determination of Course Grade/Detailed Grading Formula**

- 1. The student must meet AWS standards on all workmanship qualifications.
- 2. 25% of the grade is homework, all homework must be completed to take the exam or it is a 0 on exam, 25% written exams, and 50% is skills test
- 3. Student must have a 65-70 on Exams and complete Lab Objectives 1 thru 7=D
- 4. Student must 71 thru 80 on Exams and complete Lab Objectives 1 thru 8=C
- 5. Student must 81 thru 90 on Exams and complete Lab Objectives 1 thru 9=B
- 6. Student must 91 thru 100 on Exams and complete Lab Objectives 1 thru 10=A

#### Late Work, Make-Up, and Extra -Credit Policy:

Make-up exams must be scheduled with your professor but must be scheduled within 7 days of the original test date or you will receive a zero for the test. Make-up exams may score no higher than 90% unless the make-up exam was scheduled prior to the original exam date. At the instructor's discretion, make up exams may be in a different format from the scheduled exam. Labs and homework not turned in on the due date will be scored at 80% of the maximum

# Attendance Policy: Attendance and Tardiness will be taken each class period. No more than four absences are allowed per class period. Subject to be Drop from Class.

**Communicating with your instructor:** ALL electronic communication with the instructor must be through your COM email. Due to FERPA restrictions, faculty cannot share any information about performance in the class through other electronic means. (Faculty may add additional statement requiring monitoring and communication expectations via D2L or other LMS)

Student Learner Outcome	Maps To Competency	Assessed Via This Assignment	
Demonstrate equipment safety checks	Critical thinking	Homework, Written Exams, Lab Manual Assignment, 5-1	
Describe equipment and required pipe preparation	Critical thinking	Homework, Written Exams, Lab Manual Assignment, 5-2	
Perform 1G welds using various electrodes	Critical thinking	Homework, Written Exams, Lab Manual Assignment, 5-3	
Perform 2G welds using various electrodes	Critical thinking	Homework, Written Exams, Lab Manual Assignments 5-4, 5-5	

**Academic Dishonesty:** Any incident of academic policy will be dealt with in accordance with college policy and the Student Handbook. Academic dishonesty – such as cheating on exams is an extremely serious offense and will result in a **grade of zero** on that exam and the student will be referred to the Office of Student Conduct for appropriate discipline action.

**Concerns/Questions Statement:** If you have any questions or concerns about any aspect of this course, please contact me using the contact information previously provided. If, after discussing your concern with me, you continue to have questions, please contact Derrick Lewis Department Chair 409-933-8607/dlewis22@com.edu.

Week#	Day/Date	Торіс	Reading Assignments & Homework Due Dates	
	М	Intro + Syllabus + Expectations + Explain Grading %		
1	6-3-24	+ Welding Safety Rules and Welding Equipment		
-	Т	Welding Lecture		
	6-4-24	2-hour lab		
	W	Welding Lecture		
	6-5-24	2-hour lab		
	М	Welding Lecture	Chapter 5 Very Terms	
	610-24	2-hour lab	Chapter 5 Key Terms	
	Т	Welding Lecture	Chapter 5 Review	
2	6-11-24	2-hour lab	Questions	
	W	Welding Lecture	Chapter 5 Quiz	
	6-12-24	2-hour lab	Chapter 5 Quiz	

#### **Course outline**:

#### REVISED BY VICTOR WOODS (SUMMER 2020)

6-17-24         Chapter 5 exam and homework due 6-18-24         Chapter 5 Exam Due           3         W 6-18-24         College closed for Juneteenth         Chapter 21 Key Terms           4         M 6-24-24         2-hour lab         Chapter 21 Key Terms           7         Welding Lecture 6-24-24         2-hour lab         Chapter 21 Review Questions           W         6-24-24         2-hour lab         Chapter 21 Review Questions           W         Welding Lecture 6-26-24         2-hour lab         Chapter 21 Review Questions           W         Welding Lecture 6-26-24         2-hour lab         Chapter 21 Review Questions           W         Welding Lecture 7-1-24         Chapter 21 exam and homework due 7-1-24         Chapter 21 exam Due           T         Welding Lecture 7-3-24         Chapter 21 exam and homework due 7-10-24         Chapter 21 exam Nue           M         Welding Lecture 7-8-24         2-hour lab         Chapter 23 Review Questions           W         Welding Lecture 7-10-24         2-hour lab         Chapter 23 Review Questions           T         Welding Lecture 7-10-24         2-hour lab         Chapter 23 Exam Due           T         Chapter 23 exam and homework due 7-10-24         Chapter 23 exam and homework due 7-10-24         Chapter 23 Exam Due           T         Chapter 23	r	- I		
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### **Institutional Policies and Guidelines**

**Grade Appeal Process:** Concerns about the accuracy of grades should first be discussed with the instructor. A request for a change of grade is a formal request and must be made within six months of the grade assignment. Directions for filing an appeal can be found in the student handbook.<<u>https://build.com.edu/uploads/sitecontent/files/student-services/Student\_Handbook\_2019-2020v5.pdf</u>. *An appeal will not be considered because of general dissatisfaction with a grade, penalty, or outcome of a course. Disagreement with the instructor's professional judgment of the quality of the student's work and performance is also not an admissible basis for a grade appeal.* https://build.com.edu/uploads/sitecontent/files/student-services/Student\_Handbook\_2019-2020v5.pdf

Academic Success & Support Services: The College of the Mainland is committed to providing students with support and tools for success in their college careers. Support is offered through our Tutoring Services, Library, Counseling, and through Student Services. Please discuss any concerns with your faculty or an advisor.

**ADA Statement:** Any student with a documented disability needing academic accommodations is requested to contact Kimberly Lachney at 409-933-8919 or <u>klachney@com.edu</u>. The Office of Services for Students with Disabilities is in the Student Success Center

**Textbook Purchasing Statement:** A student attending College of the Mainland is not under any. Obligation to purchase a textbook from the college-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

**Withdrawal Policy:** Students may withdraw from this course for any reason prior to the last eligible day for a "W" grade. Before withdrawing students should speak with the instructor and consult an adviser. Students are permitted to withdraw only six times during their college career by state law. The last date to withdraw from the 10-week session is July 31, 2023

**FN Grading:** The FN grade is issued in cases of *failure due to a lack of attendance*, as determined by the instructor. The FN grade may be issued for cases in which the student ceases or fails to attend class, submit assignments, or participate in required capacities, and for which the student has failed to withdraw. The issuing of the FN grade is at the discretion of the instructor.

**Early Alert Program:** The Counseling Center at College of the Mainland has implemented an Early Warning Program. I have been asked to refer students to the program throughout the semester if they are having difficulty completing assignments or have poor attendance. If you are referred to the Early Warning Program, you will be contacted by someone in the Counseling Department. As student success and retention is very important to us, someone from the Counseling Department will schedule a meeting with you to see what assistance they can offer for you to meet your academic goals.

#### **Resources to Help with Stress:**

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If you are experiencing stress or anxiety about your daily living needs including food, housing or just feel you could benefit from free resources to help you through a difficult time, please click here <u>https://www.com.edu/community-resource-center/</u>. College of the Mainland has partnered with free community resources to help you stay on track with your schoolwork, by addressing life issues that get in the way of doing your best in school. All services are private and confidential. You may also contact the Dean of Students office at <u>deanofstudents@com.edu</u> or <u>communityresources@com.edu</u>.

### **2G PIPE SMAW Checklist**

WLDG 1435	Needs Improvement	Standards Met
Root Pass	improveniene	
Root Penetration $-1/16 - 3/32$ penetration		
Weld Undercut – no undercuts (if there are undercuts the weld is being		
made too fast or with too much heat)		
Weld Tie In (Restarts) – uniform with no undercuts		
Cover Pass		
Size – each weld bead should not exceed twice the size of the welding		
rod		
Weld Undercut - no undercuts (if there are undercuts the weld is being		
made too fast or with too much heat)		
Weld Porosity – no pin holes in weld		
Continuous Welding Bead – straight uniform bead		
Cold Lap – need to run at proper temperature		

#### **SYLLABUS CHANGES:**

The instructor reserves the right to make changes to this syllabus during the semester as needed to facilitate instruction and/or course needs.

The Speaking, Reading and Writing Center provides free tutoring services to students, staff and faculty seeking assistance for writing, reading and oral presentations for academic and non-academic assignments/projects. Located in the Technical Vocational Building 1306, the center provides face to face and online tutoring sessions in a welcoming environment. Appointments can be made in person, or on the center scheduler at com.mywconline.com, or by clicking the SRWC icon on the COM website. Run, Hide, Fight \*

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https://www.youtube.com/watch?v=5VcSwejU2D0

Last Resort ACTIVE SHOOTER SURVIVAL Measures by Alon Stivi https://www.youtube.com/watch?v=r2tIeRUbRHw

Surviving an Active Shooter Event - Civilian Response to Active Shooter https://www.youtube.com/watch?v=j0It68YxLQQ

Make the Call \* https://www.youtube.com/watch?v=AWaPp-8k2p0

## Welding Safety Rules

- 1. No Horseplay of any kind
- 2. No lighters or matches in the welding lab.
- 3. Safety glasses(Z87) or prescription glasses with Z87 frame and lens MUST be always worn in labs and outside when students are working, sunglasses are NOT acceptable.
- 4. Shaded cutting goggles or shaded cutting face shield must be worn when cutting with safety glasses.

- 5. Never use machinery or equipment unless instructed by faculty instructor or lab assistant.
- 6. Proper fitting clothing must be always warned in the lab (100% cotton, FRC)
- 7. Report all accidents immediately!
- 8. Grinding shields must be worn when grinding with safety glasses.
- 9. No tobacco of any type in the welding building
- 10.No spitting anywhere in the welding labs
- 11. Welding hoods with a shade of 9,10,11 or 12 must be worn while welding.
- 12. Tool rest for tungsten grinder must be maintained at 1/16 distance from wheel.
- 13.Gloves are required while welding, cutting, and handling metal in the welding lab.
- 14.FAILUE TO FOLLOW SAFETY RULES WILL RESULT BEING REMOVED FROM CLASS