

Course Syllabus

Introduction to Shielded Metal Arc Welding (SMAW) WLDG 1428

***** Note to Student *****

Student Success is our number one priority at Coastal Bend College, and we realize that prompt, effective communication plays a significant role in achieving that goal. It is vitally important that you have the proper contact information for your instructor. This should include their phone number, email address, and if applicable, their office number, and office hours. If you ever have any problems contacting your instructor, or do not receive a prompt response to your inquiries, please contact the Assistant Dean of Workforce Training, or the Dean of Workforce, as soon as possible. Their contact information is provided below:

Education	Assistant Dean of Career and Technical Education: Loana Hernandez, RN Lhernandez@coastalbend.edu	
	Coordinator of Industrial Workforce: Macedonio Gonzalez	

We wish you all the best in your education and encourage you to contact us if you have any questions or concerns.

Keeping student success in sight, faculty in each of the courses will review with students, course information with specific reading schedules, assignments, and testing information during the first week of class. Additionally, the course information will be posted to Blackboard (THECB 60x30TX compliance).

CIP Code Description: 48.0508 (Welding Technology/Welder)

Course Description: An introduction to the shielded metal arc welding process. Emphasis placed on power sources, electrode selection, oxy-fuel cutting, and various joint designs. Instruction provided in SMAW fillet welds in various positions.

Semester Hours Credit: 4

Lecture/Lab Hours: 2/4 (2 lecture hours, 4 lab hours)

Prerequisite: None

Textbook(s):Modern Welding 12th EditionISBN: 978-1-6356368-6-4Andrew D. Althouse, Carl H. Turnquist, William A. Bowditch, Kevin E. Bowditch, and Mark A. Bowditch

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Supplies:

- 1. Welding Hood
- 2. Welding Cap
- 3. Blue Welding Jacket (Preferred)
- 4. Leather Welding Gloves Long Cuff
- 5. Leather Work Boots (Steel Toe optional)
- 6. Z87+ Compliant Clear or Yellow Safety Glasses
- 7. Z87+ Compliant Shade 5 cutting glasses
- 8. Ear Plugs 5 pair
- 9. 25 ft. 1" wide Measuring Tape
- 10. 10" or 12" Adjustable Wrench (Crescent)
- 11. Vise Grip Pliers #11R
- 12. Vise Grip Pliers #10WR
- 13. Ball Peen Hammer 16oz
- 14. 1/2" Cold Chisel
- 15. 25 ft. Electrical Extension Cord, 3 prong 110V 14/3 or equivalent
- 16. 4 1/2" Right Angle Grinder (Minimum: 10 amp, 120 V, 11,000 RPM, Paddle/Trigger Grip)
- 17. Grinding wheel 4 1/2" x 1/4" minimum 2
- 18. Grinding Flap Disk 4 1/2" x 1/4" minimum 2
- 19. Wire Wheel 4 1/2" minimum 1
- 20. Hand File (Bastard)
- 21. Torch Flint Striker
- 22. Oxy/Acetylene Torch Tip Cleaner
- 23. Soap Stone (Square)
- 24. Soap Stone Holder (Square)
- 25. Paint Marker
- 26. Wire Brush
- 27. Chipping Hammer
- 28. Speed square or 12" Combination Square
- 29. Torpedo Level
- 30. Pad or Combination Lock
- 31. Tool bag

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Course Outcomes:

Upon successful completion of this course the student will:

- 1. Select electrodes and amperage settings for various thickness of materials and welding positions
- 2. Define principles of arc welding
- 3. Explain electrode classifications
- 4. Perform SMAW operations in various positions using selected electrodes and different joint designs

Evaluation Methods:

- 1. Written examinations 20%
- 2. Attendance 10%
- 3. Discussion participation 10%
- 4. Lab test and lab performance10%
- 5. Destructive method using a guided bend tester 10%
- 6. Final 40%

Technical Support:

Email Support:	helpdesk@coastalbend.edu	
	cabrigo@coastalbend.edu	
Telephone Support:	866-722-2838 ext. 2508 (Toll Free)	
	361.354.2508 (Direct Line)	
Live Chat:	Fall/Spring Hours: Monday-Thursday 8 a.m. to 8 p.m.; Friday 8 a.m. to 5 p.m.	
	Summer Hours: Monday-Thursday 7 a.m. to 6 p.m.	

Tutoring Services: Coastal Bend College offers free tutoring services to all CBC students who need academic assistance. Services include One-on-One, Group, and Online tutoring to all current CBC students. The Tutoring Coordinator's office is at CBC-Beeville in the Student Success Center (SSC), Room 140 which is in the R.W. Dirks building. The SSC's hours of operation are Monday -Thursday from 8 am – 8 pm. Tutoring services are also available at all the CBC site locations and students can visit the site's SSC. For questions regarding tutoring services, please contact the CBC Tutoring Coordinator at (361) 354-2838 ext. 2578 or visit us at our website at: <u>http://coastalbend.edu/tutoring/</u>.

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Beeville	Alice	Kingsville	Pleasanton
3800 Charco Road	704 Coyote Trail	1814 Brahma Blvd.	1411 Bensdale
Beeville, TX 78102	Alice, TX 78332	Kingsville, TX 78363	Pleasanton, TX 78064
1-866-722-2838	1-866-891-2981	1-866-262-1615	1-866-361-4222

Grady C. Hogue Learning Resource Center (Library): Located on the Beeville campus, the operation hours are Monday - Thursday 8:00 a.m. - 6:00 p.m.; Friday 8:00 a.m. - 5:00 p.m. (Summer semesters will observe the CBC campus operation hours.) For locations and hours of CBC library in Alice, Kingsville, and Pleasanton sites please visit the library web page links below.

Grady C. Hogue Learning Resource Center (Library): <u>http://lrc.coastalbend.edu/about</u> Online Catalog: <u>http://lrc.coastalbend.edu/catalog</u> Library Website: <u>http://lrc.coastalbend.edu/about</u> Hours and Locations: <u>http://lrc.coastalbend.edu/hours</u>

Pleasanton Public Library: <u>https://pleasanton.biblionix.com/</u>

115 N. Main St., Pleasanton, TX 78064

Monday – Friday 9:00 a.m. – 6:00 p.m. Saturday 9:00 a.m. – 1:00 p.m.

Financial Aid: Resources are available for students for financial aid, work study, and veteran benefits. For additional information, visit our website at <u>www.coastalbend.edu/finaid</u> or contact us at 361-354-2238. Office hours: Monday-Thursday 7-6 and Friday 8-5 *(THECB 60x30TX compliance.)*

ADA Statement: No qualified individual with a disability shall, by reason of such disability, be excluded from participation in or be denied the benefits of the services, programs, or activities of the College District, or be subjected to discrimination by the College District. Nor shall the College District exclude or otherwise deny equal services, programs, or activities to an individual because of the known disability of an individual with whom the individual is known to have a relationship or association. 42 U.S.C. 12132; 28 CFR 35.130(g).

See at: GA (Legal)

Students with Disabilities: Please notify your instructor of any modification/adaptation you may require to accommodate a disability-related need. You will need to provide documentation to the Director of Student Services so the most appropriate accommodations can be determined. Specialized services are available through the Office of Disability Services (SSB 4.104, 471-6259). For more information contact (361) 354-2300.

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Scholastic Dishonesty: Each student is charged with notice and knowledge of the contents and provisions of Coastal Bend College's rules and regulations concerning student conduct. All students shall obey the law, show respect for properly constituted authority, and observe correct standards of conduct. Scholastic dishonesty shall constitute a violation of these rules and regulations and is punishable as prescribed by Coastal Bend College Policies <u>FLB (Local)</u> and <u>FM (Local)</u>. Scholastic dishonesty shall include, but not be limited to, cheating on a test, plagiarism, and collusion.

Use of E-mail for Official Correspondence to students: All students should be familiar with the college's official email student notification policy. Students are expected to check their CBC email on a frequent and regular basis to stay current with college-related communications, recognizing that certain communications may be time-critical. CBC email format: last name with last four digits of social security number@study.coastalbend.edu and password is your student ID (ex. cougar1234@study.coastalbend.edu).

Copyright Law and Intellectual Property Rights Policy: Copyright is the right of an author, artist, composer or other creator of a work of authorship to control the use of his or her work by others. Protection extends to literary works, musical works, dramatic works, pantomimes and choreographic works, pictorial and graphic works, sculpture, motion pictures and other audiovisual works, sound recordings and architectural works. Generally speaking, a copyrighted work may not be reproduced by others without the copyright owner's permission. The public display or performance of copyrighted works is similarly restricted. Generally, the unauthorized reproduction, performance or distribution of a copyrighted work is copyright infringement and may subject the infringer to civil and criminal penalties. The Fair Use Doctrine outlines exceptions to this Law and is outlined in Coastal Bend College Policy, <u>CT (Legal)</u>. Coastal Bend College, its faculty, students and employees must comply with Copyright Law. Detailed information on Copyright Law and Intellectual Property Rights is available in Coastal Bend College Policy.

Questions regarding this information should be directed to the Director of Library Services at: <u>library@coastalbend.edu</u> or the Office of Marketing and Public Relations at: <u>socialmedia@coastalbend.edu</u>.

Intellectual Property: Student /Third Party Works: Rights to copyrightable or patentable works created by a student or a third party, that is, not a College District employee, shall reside with the author/ creator. Detailed information on Copyright Law and Intellectual Property Rights is available in Coastal Bend College Policy <u>CT</u> (Legal) and CT (Local).

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Questions regarding this information should be directed to Library Services at: <u>library@coastalbend.edu</u>.

NOTE: The College website (<u>www.coastalbend.edu</u>) serves as the main source with the most current version of the Coastal Bend College Board Policies and the Coastal Bend College Catalog. (4/2020)

Learning Innovation Excellence Leadership Diversity Respect Service Integrity Collaboration Communication At all times, in all ways, the student is at the heart of all we do.