MIDLAND COLLEGE SYLLABUS WLDG 1430 INTRODUCTION TO METAL ARC WELDING 2-4

Course Description:	Principles of gas metal arc welding, setup and use of Gas Metal Arc Welding (GMAW) equipment, and safe use of tools/equipment, and safe use of tools/equipment. Instruction in various joint designs. Co-requisites: WLDG 1421.
Text, References, and Supplies:	 MODERN WELDING, Althouse, Turnquist & Bowditch. Handouts from American Welding Society, Victor & Lincoln.
	The student will need to provide his/her own: Welding hood with correct lens Welding gloves Face shields - tinted Tape measure Appropriate clothing for welding Safety glasses
Course Goal/Objectives:	The following list of course goals will be addressed in the course. These goals are directly related to the performance objectives. Upon successful completion of the course the student will; 1. Complete Chapter 13 Study Guide & Test
	 Complete Chapter 15 Study Guide & Test Complete Chapter 19 Study Guide & Test Complete Chapter 33 Study Guide & Test Define Welding Terms GMAW, .035 Wire, Fillet 2F GMAW, .035 Wire, Fillet 3FD GMAW, .035 Wire, Fillet 4F

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9. GMAW, .035 Wire, Lap 2F 10. GMAW, .035 Wire, Lap 3FD 11. GMAW, .035 Wire, Lap 4F 12. GMAW, .035 Wire, Pipe to Plate 2F 13. GMAW, .035 Wire, Pipe to Plate 5FD 14. GMAW, .035 Wire, Pipe to Plate 5FU 15. GMAW, .035 Wire, Pipe to Plate Overhead 4F 16. GMAW, Flux Cored, Fillet 2F 17. GMAW, Flux Cored, Fillet 3FD 18. GMAW, Flux Cored, Lap 2F 19. GMAW, .035 Wire. V-Groove Butt 1G 20. GMAW, .035 Wire, V-Groove Butt 3GD 21. GMAW, .035 Wire, V-Groove Butt 3GU 22. GMAW, .035 Wire, V-Groove Butt 2G 23. GMAW, .035 Wire, 6" Pipe 1G 24. GMAW, .035 Wire, 6" Pipe 5G 25. GMAW, .035 Wire, 6" Pipe 2G 26. GMAW, .035 Wire, 6" Pipe 6G

Student Contributions, and Class Policies:

Attendance, desire to learn with steady and consistent work.

1. The student will be enrolled in WELD 1430. The student will exhibit professional behavior. Performance will be satisfactory if;

- a. College attendance is adhered to
- b. Student participates in class
- c. Student maintains a positive attitude

2. Unless otherwise stated, the student will be allowed references, including research material located in the Midland College Welding Technology Library. The student will be provided demonstrations for each of the content goals as seen necessary by the instructor. These goals will be complete and satisfactory is consistent with AWS and the course text.

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3. Student will use department computers to access AWS software and research procedures and required results of welding codes.

4. Satisfactory performance will be measured by an objective and/or application exam and instructors' observation.

Evaluation of Students: Chapter Tests......10% Attendance, Class Participation, And Attitude......10% Notebook......10% 90 and above А 80 to 89 В 70 to 79 С 60 to 69 D 50 to 59 F (1 point per absence) This class meets for 2 lecture hours and 5 lab hours **Course Schedule:** per week. **SCANS Information:** The following SCANS skills are taught and reinforced in this course. **RESOURCES:** Selects material and equipment and procedure which will allow or produce enough time to complete all goals. Estimates cost to complete all content goals. **TECHNOLOGY:** Understands the convolution involved with the use of GMAW power supplies, wire feeders and welder controlled electrode stick-out.

MIDLAND COLLEGE SYLLABUS WLDG 1430 INTRODUCTION TO GAS METAL ARC WELDING 2-4

Program Information:

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> Curt Pervier, Applied Technology Dean Lisa Hays, Applied Technology Secretary Room 143A TC Tel: (432) 685 4676 Fax: (432) 685-6472

Students are encouraged to contact the instructor at any time; however, making an appointment will guarantee the instructor's availability at a specific time.

Americans with Disabilities Act (ADA) Statement:

Midland College provides services for students with disabilities through Student Services. In order to receive accommodations, students must visit <u>www.midland.edu/accommodation</u> and complete the Application for Accommodation Services located under the Apply for Accommodations tab. Services or accommodations are not automatic, each student must apply and be approved to receive them. All documentation submitted will be reviewed and a "Notice of Accommodations" letter will be sent to instructors outlining any reasonable accommodations.

Students MUST actively participate by completing an academic assignment required by the instructor by the official census date. Students who do not actively participate in an academically-related activity will be reported as never attended and dropped from the course.

Midland College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. The following individuals have been designated to handle inquiries regarding the nondiscrimination policies: Tana Baker, Title IX Coordinator/Compliance Officer, 3600 N. Garfield, SSC 242, Midland, TX 79705, (432) 685-4781, tbaker@midland.edu; Natasha Morgan, Director Human Resources/Payroll, 3600 N. Garfield, PAD 104, Midland, TX 79705, (432) 685-4534, <u>nmorgan@midland.edu</u>. For further information on notice of non-discrimination, visit http://wdcrobcolp01.ed.gov/CFAPPS/OCR/contactus.cfm or call 1 (800) 421-3481.

<u>Spanish</u>

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