MIDLAND COLLEGE SYLLABUS WLDG 2435 ADVANCED LAYOUT AND FABRICATION

2-4

Course Description:

A continuation of the Intermediate Layout and Fabrication course which covers production and fabrication with layout tools and processes. Emphasis on application of fabrication and layout skills. The student will apply appropriate techniques of fabrication; design welding projects; prepare drawings and produce templates. The student will apply layout offsets; take offs; bills of materials; and apply mathematical concepts in the construction of projects. Safe work habits will be

discussed and demonstrated.
Prerequisite: WLDG 1453

Text, References, and Supplies:

PIPE TEMPLATE LAYOUT, Franklin.
 PIPE FITTERS AND PIPE WELDERS
HANDBOOK, Franklin.

The student will need to provide his/her own:

Welding hood with correct lens

Welding gloves
Face Shield - Tinted

Tape measure

Appropriate clothing for welding

Safety Glasses

Course Goal/Objectives:

The following list of course goals will be addressed in the course. The goals are directly related to the performance objectives. (*designates a CRUCIAL Goal)

- 1. Develop Full Size T Template
- 2. Develop Reducing T Template
- 3. Develop 2 Piece 90 Turn Template
- 4. Develop 3 Piece 90° Turn Template
- 5. Develop Orange Peel Template
- 6. Develop Bull Plug and Cap Template
- 7. Develop Concentric Reducer Template
- 8. Develop Eccentric Reducer Template

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- 9. Produce Full Size T
 - 10. Produce Reducing T
 - 11. Produce 2 Piece 90° Turn Template
 - 12. Produce 3 Piece 90° Turn Template
 - 13. Produce Orange Peel Cap
 - 14. Produce Bull Plug Cap
 - 15. Produce Concentric Reducer
 - 16. Produce Eccentric Reducer
 - 17. Demonstrate 2 Holing Flanges
 - 18. Demonstrate 90° ELL/Flange
 - 19. Demonstrate 90° ELL Off A 90° ELL
 - 20. Demonstrate 90° ELL-180° Off A 90° ELL
 - 21. Demonstrate 90° ELL-45° ELL

Student Contributions, and Class Policies:

Attendance, desire to learn with steady and Consistent work.

- 1.The student will be enrolled in WELD 2435. 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 neccessary by the instructor. These goals will be complete and satisfactory is consistent with AWS and the course text.
- 3. Satisfactory performance will be measured by an objective and/or application exam and instructors observation.

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SCANS Information:

Evaluation of Students:	Exercise Grades	50%
	Exercise Tests	10%
	Attendance, Class Participation,	
	And Attitude	10%
	Notebook	10%
	Final Examination	20%
	90 and above	A
	80 to 89	В
	70 to 79	C
	60 to 69	D
	50 to 59	F
	(1 point per absence)	
Course Schedule: This course meets for 2 lectules hours per week.		for 2 lecture hours and 5 lab

RESOURCES:

reinforced in this course:

Selects material and equipment and procedure which will allow or produce enough time to complete all goals. Estimates cost to complete all content goals.

The following SCANS skills are taught and

THINKING:

Specifies goals and procedures needed to meet the desired test results. Develops new learning technique in researching AWS codes. Learns that strict compliance to the rules and regulations of these codes are necessary.

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Program Information: Derek Gasch, Department Chair

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Curt Pervier, Applied Technology Dean Lisa Hays, Applied Technology Secretary

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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 www.midland.edu/accommodation 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.

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Spanish

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