MIDLAND COLLEGE
SYLLABUS
ELMT 2371
ELECTROMECHANICAL TROUBLESHOOTING
2-2

Course Description:
Students will be introduced to techniques used in troubleshooting various types of mechanical, electrical, hydraulic and pneumatic systems and their control devices. Students will learn how to use schematics and technical drawings in conjunction with proper troubleshooting procedures.

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.

Text, References and Supplies (not required):

Electrical Motor Controls for integrated systems, Gary J. Rockus and Glen A. Mazur, ATP Publishing 4e, 2009. ISBN-978-0-8269-1217-6

Learning Objectives:

1. Become familiar with different systems used in the energy field.
2. Use and understand test equipment necessary for trouble shooting problems in the field.
3. Identify symbols used in technical drawing and schematics.
4. Apply using test equipment and technical drawing to isolate and repair equipment.
5. Discuss steps and procedures used in critical thinking.

Students may perform the following tasks in order to maintain safe lab and classroom spaces:

- Participate in shop and classroom maintenance which may include, but not limited to sweeping, mopping, disposing of trash, cleaning work benches, organize tools and equipment, organize tool room, disinfect classroom tables and chairs.
- Disassemble discontinued lab training vehicles or equipment for salvage.
- Repurpose lab vehicles to be utilized in lab assignments.
- Other course related tasks as assigned by instructor

Course Policies:
Each student is expected to act in a safe manner. The presence of exposed mechanical and electrical hazards makes unsafe acts inexcusable.

I expect that any student would never knowingly violate the College's policy on academic honesty. Please assume that all assignments require only individual efforts unless the instructor specifically requests team or group collaboration.

Make-up work is allowed only if pre-approved, or the student circumstances are deemed an emergency, by the instructor. Points for participating in class discussions and group exercises cannot be made-up.

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Drop Policy:

It is the student's responsibility to drop this course if circumstances develop that prevents his/her completion of the course. Instructors no longer have the prerogative of awarding the letter grade of "W".

Evaluation of Students:

Participation		35%
Quizzes		25%
Lab		25%
Final Exam		15%
	Total	100%

90 and above	A
80-89	B
70-79	C
60-69	D
59 and below	F

Course Schedule: This class meets for 3 lecture hours.

SCANS Information: SCANS skills are taught and/or reinforced in energy/petroleum courses. The student must locate, read, interpret and understand instruction information and direction materials. The participant must communicate thoughts, ideas and information through verbal and written mediums. Practical arithmetic and mathematics will apply continually throughout energy/petroleum training. Listening, interpreting, and responding to verbal communications and instructions as well as speaking in response to questioning will be a daily involvement. Thinking, reasoning, visualizing and problem solving are required assets to the energy/petroleum field. The student/participant must display responsibility, self-management and honesty.

Administrative Information:

Pete Avalos, Dean of Applied Technology

Division Office:
Main Campus/MHAB # 176
Phone: (432) 685-4676

Erick Gutierrez, Department Chair/Professor
ATC Office #128
(432) 686-4917
egutierrez@midland.edu

Students should feel free to contact the instructor at any time. Appointments are encouraged for advising and planning the most appropriate or beneficial course work.

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Americans with Disabilities Act (ADA)

Any student who, because of a disabling condition, may require some special arrangements to meet course requirements should contact disabilities support services as soon as possible at: Accommodation Services. Conditions may include documented physical or educational disabilities. Please be aware that services or accommodations are not automatic. Each student must request them and secure the proper authorizations/documentation. Accessibility Links can be found on the Pages tab in Canvas.

Midland College Non-Discriminatory Statement:

Midland College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. For information and inquiries regarding Midland College's non-discrimination policies, go to: Title IX For further information on notice of non-discrimination, visit the ED.gov Office of Civil Rights website, or call 1 (800) 421-3481.

Syllabus subject to change as deemed necessary by the instructor to ensure learning objectives and course goals are met