COURSE OUTCOME MATRIX
COURSE SYLLABUS
PART 2 of 3

Course Number and Title	MX 130 Fluid Power I

Credit Hours	2

Course Description	Fluid Power I is a comprehensive introduction to fundamentals of hydraulic and pneumatic systems. This course covers design, pneumatic/hydraulic control systems, component applications, and system overview of pneumatic and hydraulic systems.

Prerequisite(s) and/or Corequisite(s)	EG 107 or higher MT 124 or higher

Required Textbooks/References/Course Materials:

Fluid Power: Hydraulics and Pneumatics	3rd	James R. Daines	Goodheart-Wilcox	1635634733

	General Education Outcomes
1	Utilize written and verbal language to discuss and comprehend information, incorporating a variety of technologies, such as text, data, and images (written language, verbal language, and information technology).
2	Identify and interpret relevant information in order to formulate an opinion or conclusion (critical thinking).
3	Demonstrate and communicate computational methods and mathematical reasoning in a variety of formats (using words, tables, graphs, mathematical equations, etc., as appropriate) (quantitative literacy and fluency).
4	Communicate in appropriate ways with those who are culturally diverse (intercultural competence).

	Program/Department Outcomes
1	Prepare students to become safe and competent electrical technicians
2	Provide opportunities to display critical thinking skills
3	Demonstrate responsible professional conduct and behavior.
4	Effectively communicate.
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	Course Outcomes (CO)	Bloom's Domain for CO (C, A, P), Category, and Level	Program/ Department Outcome(s)	Written Language	Verbal Language	Information Technology	Critical Thinking	Quantitative Literacy and Fluency	Intercultural Competence
1	Demonstrate safety related precautions and concerns while working in and around pneumatic hydraulic circuits and systems.	C-Applying (3)	1, 4	1	1	1	1	2	0
2	Comprehend the purpose and general operating principles related to the components used within pneumatic and hydraulic circuits and systems.	C-Understanding (2)	1, 3, 4	1	1	1	1	2	0
3	Comprehend various symbols, Interpret and develop schematic diagrams relative to pneumatic and hydraulic circuits and systems.	C-Understanding (2)	1, 4	1	1	1	1	2	0
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10									

Bloom's Domain Legend
C = Cognitive
A = Affective
P = Psychomotor

General Education Outcome Legend
2 = Included and Measurable
1 = Introduced and/or Minimally Addressed and Not Measurable
0 = Not included

Approved: May 2021
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