COURSE OUTCOME MATRIX COURSE SYLLABUS PART 2 of 3

Course Number and Title		WL 201 GAS METAL ARC WELDING (GMAW)
Credit Hours	3	
Course Description	demonstrated demon	lassroom and/or lab/shop learning and assessment activities, students in this course will explain gas metal arc welding (GMAW) process, ite the safe and correct set-up of the GMAW workstation, correlate GMAW electrode classifications with base metals and joint criteria, ite proper electrode selection and use based on metal types and thicknesses, building pads of weld beads with selected electrodes in the n, build pads of weld beads with selected electrodes in the horizontal position, produce basic GMAW welds on selected weld joints, and sual inspection of GMAW welds.
Prerequisite(s) and/or Corequisite(s)		

Modern Welding Lab Workbook	12th	Althouse, Andrew D.	Goodheart-Wilcox Co.	1635636876
Modern Welding	12th	Althouse, Andrew D.	Goodheart-Wilcox Co.	1635636868

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). Identify and interpret relevant information in order to formulate an opinion or conclusion (critical thinking).

- 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).
- Communicate in appropriate ways with those who are culturally diverse (intercultural competence).

	Program/Department Outcomes
1	Prepare students to become safe and competent welders
2	Provide opportunities to possess communication and 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	Ensure that safety aspects of welding processes and practices are understood and followed	C- Understanding (2)	1,2,3,4	0	1	0	1	0	0
2	Perform set up operations and shut down procedures for MIG equipment	P- Manipulate (2)	1,2,3,4	0	1	0	1	1	0
3	Demonstrate surface weld flat, horizontal, vertical, and overhead position	P- Manipulate (2)	1,2,3,4	0	0	0	1	1	0
4	Demonstrate square groove and fillet weld, butt, lap, and tee joints in flat, horizontal, vertical, vertical up, and overhead position	P- Manipulate (2)	1,2,3,4	0	0	0	1	1	0
5	Perform troubleshooting on MIG equipment	P- Manipulate (2)	1,2,3,4	0	1	0	1	1	0
6	Inspect welds for inconsistencies and irregularities	C- Understanding (2)	1,2,3,4	0	0	0	1	0	0
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8									
9									
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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: Reviewed:

May 2021 November 11, 2021