COURSE OUTCOME MATRIX COURSE SYLLABUS PART 2 of 3

WL 266 ADVANCED GAS					
TUNGSTEN ARC WELDING (GTAW)					

Credit Hours 3

joint designs and diagnose welding problems and perform visual inspection.

Prerequisite(s)	WL 202 – Gas Tungsten Arc Welding (GTAW)
and/or	
Corequisite(s)	

Required Textbooks/References/Course Materials: None.

	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 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	Demonstrate appropriate methods for preparing base metal materials	P- Manipulate (2)	1,2,3,4	0	0	0	1	1	0
3	Select the appropriate tungsten electrode type and diameter for related equipment and projects	P- Perfect (3)	1,2,3,4	0	1	0	1	1	0
4	Select and apply the appropriate heat range, high frequency, polarity, shielding gas flow rate, filler rod type, and diameter for related equipment and projects	P- Perfect (3)	1,2,3,4	0	1	0	1	1	0
5	Demonstrate the manipulative skills necessary to weld selected joint designs with GTAW process which meet industry standards in 2G, 3G, 4G, and 6G positions and various base metals.	P- Articulate (4)	1,2,3,4	0	0	0	1	1	0
6	Distinguish between qualification and certification procedures	C- Understanding (2)	1,2,3,4	0	1	0	1	1	0
7									
8									
9 10									
Bloom's Domain Legend General Education Outcome Legend C = Cognitive 2 = Included and Measurable A = Affective 1 = Introduced and/or Minimally Addressed and Not Measurable P = Psychomotor 0 = Not included									

Reviewed: November 11, 2021