



	ram: W 48.0508	elding T	echnol	ogy					2020-2021		
<u> </u>	40.0000	ı	IST ALI	Cours	SES REQ	UIRED A	ND IDE	NTIFIED COMPET			
	Competencies							Course			
1	2	3	4	5	6	7	8	Number	Course Title		
X	X	X	X	X	X	X	X	WLDG 1412	Intro- Flux Cored Arc Welding		
X	X	X	X	X	X	X	X	WLDG 1413	Blueprint Reading for Welders		
X	X	X	X	X	X	X	X	WLDG 1428	Intro- Shielded Metal Arc Welding		
X	X	X	X	X	X	X	X	WLDG 1457	Intermediate Shielded Metal Arc Welding		
X	X	X	X	X	X	X	X	WLDG 1435	Intro to Pipe Welding (SMAW)		
X	X	X	X	X	X	X	X	WLDG 1434	Intro to Gas Tungsten Arc Welding (GTAW)		
X	X	X	X	X	X	X	X	WLDG 1417	Intro-Layout and Fabrication		
X	X	X	X	X	X	X	X	WLDG 2453	Advanced Pipe Welding		
X	X	X	X	X	X	X	X	WLDG 2451	Advanced Gas Tungsten Arc Welding		
X	X	X	X	X	X	X	X	WLDG 2452	Advanced Flux Cored Arc Welding		
								COMPETENCY REFERENCES			
							8 Basic use of computers				
						7 Workplace Competencies : resources; interpersonal skills; information; systems; and technology.					
				6 Personal Qualities : A worker must display responsibility, self-esteem, sociability, self-management, integrity, and honesty.							
				5 Thinking Skills : A worker must think creatively, make decisions, solve problems, visualize, know how to learn, and reason effectively.							
			recei	4 Speaking and Listening : Organize ideas and communicate orally; receive, attend to, interpret, and respond to verbal messages and other cues.							
		pract	ithmetic or Mathematics: Perform basic computations and approach tical problems by choosing appropriately from a variety of mathematical niques.								
		2 Writing : Communicate thoughts, ideas, information, and messages in writing, and create documents such as letters, directions, manuals, reports, graphs, and flow charts.									

1 Reading: Locate, understand, and interpret written information in prose and in documents such

as manuals, graphs, and schedules.

SCANS Competencies Checklist

$\textbf{SCANS COMPETENCIES FOR PROGRAM} \ \ \textbf{Welding Certificate}$

ACADEMIC YEAR 2021-2022

Competency	Course where Competency is Assessed	Method of Assessment	Findings and Plans for Improvements				
1 READING: Locate, understand, and interpret written information in prose and in documents such as manuals, graphs, and schedules.	WLDG 1412, 1413, 1428, 1417, 1434, 1435, 1457, 2451, 2453, 2452	All 12 certificate courses online hosted by the AWS. All courses must be passed to pass the course at 100%	100% of the students must use the American Welding Society's online library to become certified in each course. Reading skills are used all course long. We will be shooting to maintain 100% success rate.				
	WLDG 1412, 1413, 1428, 1417, 1434, 1435, 1457, 2451, 2453, 2452	Practical welding positions. 33 total. Must Pass with 70% 3 of them Tested by 3 rd party CWI They are pass or fail.	Students must be able to trouble shoot any problems associated with performing these welds. Students are encouraged to draw it out before they are initiated. This could be encouraged more. Findings: At Intro and intermediate levels Process for beginner level is easier than others. Improvement higher than 90% would be challenging because that is significant already. ADV students working at a high level at this point. The amount of defects is minimal with success rates at 90%. Plans for Improvements: We will push to maintain these high numbers hopefully exceeding them.				
3 ARITHMETIC OR MATHEMATICS: Perform basic computations and approach practical problems by choosing appropriately from a variety of mathematical techniques.	WLDG 1412, 1413, 1428, 1417, 1434, 1435, 1457, 2451, 2453, 2452	All 12 certificate courses online hosted by the AWS. All courses must be passed to pass the course at 100%	Basic Math is used for every course. Additionally 2 certificates are earned in Math. Fabrication Math I and Fabrication Math II. We will be working with the students to maintain 100% success rate.				
4 SPEAKING AND LISTENING: Organize ideas and communicate orally; receive, attend to, interpret, and respond to verbal messages and other cues.	WLDG 1412, 1413, 1428, 1417, 1434, 1435, 1457, 2451, 2453, 2452	Classroom and Lab exercises, Examination questions, Quizzes	100% of the students must verbally communicate with Certified Welding Inspector while they are being tested for certification. Each semester this takes place. We will be working in the Lab to maintain 100% compliance in encouraging the student body in communication which makes a student employable.				

5 THINKING SKILLS: A worker	WLDG 1412, 1413, 1428,	Practical welding positions.	Students must perform over
	1417, 1434, 1435, 1457,	33 total. Must Pass with 70%	33 weld positions proficiently
	2451, 2453, 2452	3 of them Tested by 3 rd party	in order to successfully
	2431, 2433, 2432		graduate. Use of weld
visualize, know how to learn, and		CWI. They are pass or fail.	5
reason effectively.			Performance evaluation
			sheets can encourage a
			reduced level of defect in
			students weld samples.
			Findings:
			At Intro and intermediate
			levels Process for beginner
			level is easier than others.
			Improvement higher than
			90% would be challenging
			because that is significant
			already.
			ADV students working at a
			high level at this point. The
			amount of defects is minimal.
			Success rates are 90%.
			Plan: We will work with the
			students in the Lab to
			maintain these high numbers
			and possibly exceeding them.
6 PERSONAL QUALITIES: A	WLDG 1412, 1413, 1428,	Welding Technology	100% of students must
worker must display	1417, 1434, 1435, 1457,	Program rules and	display these 6 personal
responsibility, self-esteem,	2451, 2453, 2452	regulations with Student	qualities
sociability, self-management,		expectations. Maintaining a	Encouragement from the
integrity, and honesty.		high level of compliance with	instructor will aid in
		what expected from the	developing these
		student.	characteristics even more.
			We will work with the students
			to maintain 100% compliance
			in encouraging the student
			body in displaying the
			personal qualities which make
			a excellent employees.
7 WORKPLACE	WLDG 1412, 1413, 1428,	Classroom and Lab	100% of the students verbally
_			communicate with Certified
COMPETENCIES: resources;	1417, 1434, 1435, 1457,	exercises, Examination	
	2451, 2453, 2452	questions, Quizzes	Welding Inspector while they
systems; and technology			are being tested for
			certification. Welding
			Inspection occurs each
			semester for a total of 3
			different times in the program.
			We will be work with the
			students to maintain 100% of
			these work place
			competencies.
8 BASIC USE OF COMPUTERS	WLDG 1412, 1413, 1428,	All 12 certificate courses	100% of the students use the
	1417, 1434, 1435, 1457,	online hosted by the AWS. All	American Welding Society's
	2451, 2453, 2452	courses must be passed to	online library to become
		pass the course at 100%	certified in each course.
			Computer basics are used all
			course long.
			We will be work with the
			students on their computer
			skills to maintain 100%
			success rate.
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