Iowa SENSE Aligned Welding Curriculum			
General Course Info			
Course Number: WEL 262			
<b>Discipline:</b> WEL – Welding			
Course Title: Thermal Cutting Proce		sses I – Manual and Mechanized OxyFuel Cutting: SENSE 1	
Short Title: OFC-I Manual & Mech:		SENSE 1	
Course Description:  cutting on carbon steel flat position. The stude metal in flat and horizon		ety, equipment setup and cutting techniques for manual and mechanized OxyFuel. Students perform American Welding Society compliant cutting operations in the ent will also perform scarfing and gouging operations to remove base and weld ontal positions on carbon steel. This course aligns to SENSE Level 1 Module 8 - s Module 2 - Key Indicator 7 and Module 9 - Key Indicator 1.	
Credit Hours: 2			
Pre/ Co-requisites: WEL 228 is a pre or co-re		-requisite.	
Course Competencies			
Course Competencies:	I. Evaluate cutting equipment, accessories and consumables to ensure proper safety and operations 2. Produce manual oxyfuel cuts on carbon steel 3. Produce mechanized oxyfuel cuts on carbon steel 4. Perform scarfing and gouging operations to remove base and weld metal on carbon steel 5. Evaluate cuts to ensure AWS D.1.1 standards are met		
Course Sub- Competencies:	1.3 Set up manual oxyfuel 1.4 Set up mechanized oxy 2.1 Complete straight, squa 2.2 Complete shape, squar 2.3 Complete straight, bev 3.1 Complete straight, squa equipment 3.2 Complete straight, bev equipment 4.1 Remove base metal in 4.2 Remove base metal in 4.3 Remove weld metal in 4.4. Remove weld metal in 5.1 Analyze completed cut 5.2 Adjust cutting techniq 5.3 Analyze completed sca	.2 Complete minor external repairs to oxyfuel cutting equipment .3 Set up manual oxyfuel equipment for cutting carbon steel .4 Set up mechanized oxyfuel equipment for cutting carbon steel .1 Complete straight, square edge cutting operations in the flat position with manual oxyfuel equipment .2 Complete shape, square edge cutting operations in the flat position with manual oxyfuel equipment .3 Complete straight, bevel edge cutting operations in the flat position with manual oxyfuel equipment .1 Complete straight, square edge cutting operations in the flat position with mechanized oxyfuel equipment .2 Complete straight, bevel edge cutting operations in the flat position with mechanized oxyfuel	
5.4 Adjust scarfing and gouging technique  Assessment of Student Learning			
1		1. Written Test Score 75% minimum	
SENSE Assessment:		2. Visual Inspection Passed	
Recommended 3rd Party Certification:		N/A	

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