MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE COURSE OUTLINE

DEPT. WELD	COURSE NUMBER: 1210
NUMBER OF CREDITS: 2	Lecture: 1 Lab: 1 OJT: 0
Course Title:	
Oxy-fuel/Plasma Arc Cutting	
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Catalog Description:	
Oxy-fuel/Plasma Arc Cutting provides the student oxyacetylene cutting and welding and plasma arc cutting arc cut	<u> </u>
Prerequisites or Necessary Entry Skills/K	inowledge:
None	
FULFILLS MN TRANSFER CURRICUL applicable)	•
☐Goal 1: Communication: By meeting the following ☐Goal 2: Critical Thinking: By meeting the following the followi	-
□Goal 3: Natural Sciences: By meeting the following the f	
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Goal 4: Mathematics/Logical Reasoning: By meet	
☐Goal 5: History and the Social and Behavioral Sci competencies:	ences: By meeting the following
•	a the following competencies:
☐Goal 6: The Humanities and Fine Arts: By meeting the following competencies: ☐Goal 7: Human Diversity: By meeting the following competencies:	
□Goal 8: Global Perspective: By meeting the follow	
☐ Goal 9: Ethical and Civic Responsibility: By meet	0 1
☐ Goal 10: People and the Environment: By meeting	
Goal 10. reopie and the Environment. By meeting	g the following competencies.
Topics to be Covered	
Safety precautions used when performing oxy-fuel gas cutting and welding	
Identify parts of an oxy-fuel outfit	
Describe function of parts in an oxy-fuel outfit	
Steps required to assemble an oxy-fuel outfit	
Steps required to turn on an oxyacetylene outfit	
Procedures used to check for leaks in an oxy-fuel sy	
Lighting and adjusting the flame on an oxyacetylen	
Shutting off an oxyacetylene welding or cutting out	<u>:fit</u>

Identification and assembly of Plasma Arc Cutting equipment	
Safety precautions when using Plasma Arc Cutting equipment	
Setup and performing cuts using Plasma Arc Cutting equipment	
Student Learning Outcomes	
Recognize a safe work environment and the need for personal safety.	
Identify safety precautions that must be taken when using oxy-fuel cutting equipment.	
Identify and describe function of parts of an oxy-fuel gas cutting or welding outfit.	
Perform basic procedures using oxy-fuel cutting equipment.	
Define Plasma Arc Cutting.	
Identify safety precautions that must be taken when using Plasma Arc Cutting equipment.	
Identify and describe function of parts used for Plasma Arc Cutting.	
Set-up and perform cuts using Plasma Arc Cutting equipment.	
Is this course part of a transfer pathway: Yes \text{No} \text{No}	

Revised Date: 3/29/2022