## MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE COURSE OUTLINE

DEPT. WELD	<b>COURSE NUMBER: 1340</b>
NUMBER OF CREDITS: 3	Lecture: 0 Lab: 3 OJT: 0
Course Title:	
Welding Qualifications Lab	
Catalog Description:	
Welding Qualifications Lab teaches students how codes and specifications for welding qualification Welding Society and ASME tests and procedure Performance will be evaluated using visual and	ons. Emphasis will be placed on the American es for ferrous and non-ferrous metals.
Prerequisites or Necessary Entry Skills	s/Knowledge•
None None	"Ixiowicuge.
Goal 1: Communication: By meeting the follo Goal 2: Critical Thinking: By meeting the follo Goal 3: Natural Sciences: By meeting the follo Goal 4: Mathematics/Logical Reasoning: By magnetical Goal 5: History and the Social and Behavioral competencies:  Goal 6: The Humanities and Fine Arts: By meeting the follo Goal 7: Human Diversity: By meeting the follo Goal 8: Global Perspective: By meeting the follo Goal 9: Ethical and Civic Responsibility: By magnetical Goal 10: People and the Environment: By meeting the follows Goal 10: People and the Environment: By meeting the follows Goal 10: People and the Environment: By meeting the follows Goal 10: People and the Environment: By meeting the follows Goal 10: People and the Environment: By meeting the follows Goal 10: People and the Environment: By meeting the follows Goal 10: People and the Environment: By meeting the follows Goal 10: People and the Environment: By meeting the follows Goal 10: People and the Environment: By meeting the follows Goal 10: People and the Environment: By meeting the follows Goal 10: People and the Environment: By meeting the follows Goal 10: People and the Environment: By meeting the follows Goal 10: People and the Environment: By meeting the follows Goal 10: People and the Environment: By meeting the follows Goal 10: People and the Environment: By meeting the follows Goal 10: People and the Environment: By meeting the follows Goal 10: People and the Environment: By meeting the follows Goal 10: People and the Environment: By meeting the follows Goal 10: People 20: People 20	owing competencies: owing competencies: neeting the following competencies: Sciences: By meeting the following eting the following competencies: owing competencies: llowing competencies: neeting the following competencies:
Topics to be Covered	
Contrast practical and written weld examination	S
Outline the steps to certify a weld and a welder	11 / 1 1 1 / 2 1 1
Integrate the American Welding Society workm	
Describe housekeeping responsibilities in a weld	1 SHOP
Write a welder performance qualification test	
Make welds that comply with a standard	

Student Learning Outcomes				
Recognize a safe work environment and the need for personal safety.				
Demonstrate weld shop safety.				
Demonstrate safe and proper use of weld shop equipment and components.				
Prepare job cards, reports, and records in preparation for passing a test for a job.				
Demonstrate and perform weld shop housekeeping duties.				
Follow written and verbal instructions to layout, cut out, fit up, and weld various weldments				
using various processes.				
Examine cut surfaces and edges of prepared base metal parts.				
Examine tacks, root passes, intermediate layers and completed welds.				
Apply American Welding Society codes and standards to completed welds.				
Demonstrate and meet workmanship standards as specified through the WPS blueprints and				
production drawings.				
Complete the weld safety test with a minimum score of 90%.				

Is this course part of a transfer pathway:	Yes	No	
*If yes, please list the competencies below			

Revised Date: 3/29/2022