## MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE COURSE OUTLINE

DEPT. DSL	<b>COURSE NUMBER: 1100</b>
NUMBER OF CREDITS: 3	Lecture: 3 Lab: 0 OJT 0
Course Title:	
Diesel Engine Theory	
Catalog Description:	
Diesel Engine Theory explains the function of the detrain operation, rings, cylinders, pistons, crankshaft compliment basic engine theory.	
Prerequisites or Necessary Entry Skills/K	nowledge:
None	
FULFILLS MN TRANSFER CURRICUL	UM AREA(S)
□Goal 1: Communication: By meeting the followin	
□Goal 2: Critical Thinking: By meeting the followi	-
□Goal 3: Natural Sciences: By meeting the following	
□Goal 4: Mathematics/Logical Reasoning: By meet	
□Goal 5: History and the Social and Behavioral Scientific Scienti	
competencies:	chees. By meeting the following
☐Goal 6: The Humanities and Fine Arts: By meeting	the following competencies:
□Goal 7: Human Diversity: By meeting the following	
□Goal 8: Global Perspective: By meeting the follow	
□Goal 9: Ethical and Civic Responsibility: By meet	
□Goal 10: People and the Environment: By meeting	
:	, the rono wing competences.
<b>Topics to be Covered</b>	
Diesel combustion	
Diesel engine components	
Diesel engine operation	
<b>Student Learning Outcomes</b>	
Describe diesel combustion	
Identify chamber designs	
Explain how a valve train works	

Discuss the function of rings, cylinders, pistons, crankshafts, connecting rods and other	
components that affect the function of the diesel engine.	
Diagnose engine related issues	
Identify tools necessary to measure component quality.	
Is this course part of a transfer pathway: Yes □ No ☒	

Revised Date: August, 2021