MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE
COURSE OUTLINE

DEPT.  DSL                      COURSE NUMBER:  1105

NUMBER OF CREDITS:  4    Lecture:  0    Lab:  4    OJT 0

Course Title:
Diesel Engine Lab

Catalog Description:
Diesel Engine Lab provides the student hands-on shop experiences. The student will disassemble, inspect, evaluate, repair and adjust, and reassemble valve, valve train components, cylinder blocks, crank shafts, bearings, sleeves, pistons, rings, and other components to make engine operational.

Prerequisites or Necessary Entry Skills/Knowledge:
None

FULFILLS MN TRANSFER CURRICULUM AREA(S)
Goal 1: Communication: _____ by meeting the following competencies:

Goal 2: Critical Thinking: _____ by meeting the following competencies:

Goal 3: Natural Sciences: _____ by meeting the following competencies:

Goal 4: Mathematics/Logical Reasoning: _____ by meeting the following competencies:

Goal 5: History and the Social and Behavioral Sciences: _____ by meeting 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 following competencies:

Goal 9: Ethical and Civic Responsibility: _____ by meeting the following competencies:

Goal 10: People and the Environment: _____ by meeting the following competencies:
Topics to be Covered

- Valve trains
- Cylinder blocks
- Crank shafts
- Bearings
- Sleeves
- Pistons
- Rings

Student Learning Outcomes

- Disassemble valve, valve train components, cylinder blocks, crank shafts, bearings, sleeves, pistons, rings, and other components.
- Inspect valve, valve train components, cylinder blocks, crank shafts, bearings, sleeves, pistons, rings, and other components.
- Evaluate valve, valve train components, cylinder blocks, crank shafts, bearings, sleeves, pistons, rings, and other components.
- Repair valve, valve train components, cylinder blocks, crank shafts, bearings, sleeves, pistons, rings, and other components.
- Adjust valve, valve train components, cylinder blocks, crank shafts, bearings, sleeves, pistons, rings, and other components.
- Reassemble valve, valve train components, cylinder blocks, crank shafts, bearings, sleeves, pistons, rings, and other components.
- Test engine to ensure operability.

Is this course part of a transfer pathway: Yes ☐ No ☒

Revised Date: August, 2021