

MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

COURSE OUTLINE

DEPT. DSL

COURSE NUMBER: 2175

NUMBER OF CREDITS: 2

Lecture: 1 Lab: 1 OJT 0

Course Title:
Diesel Equipment Preventative Maintenance

Catalog Description:
Diesel Equipment Preventative Maintenance describes preventative maintenance on heavy duty diesel equipment, as well as strategies for continued best performance and safe operation of the equipment.

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
Routine diesel maintenance
Preventative diesel maintenance
Equipment inspections
Environmental Ramifications

Student Learning Outcomes
Explain preventive maintenance of the equipment components to obtain the longest service life from the unit
Describe safety procedures to protect the technician and the environment
Perform proper inspection procedures so that the equipment will operate safely
Calculate remaining usable life of fluids, tires, belts, engine condition, and power train components

Correlate equipment maintenance with the effects on the environment

Complete a work order outlining inspection results

Is this course part of a transfer pathway: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Revised Date: 8/2021