Course Title: Diesel Engine Control Systems

Catalog Description: Diesel Engine Control Systems explains the operation of all the different governors and electronically controlled engines.

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:
- Governors
- Electrically Controlled Engines
- Computer Programs
- Computer Diagnostics
- Engine Specifications

Student Learning Outcomes:
- Control engine speed with governors
- Operate electronically controlled engines
- Operate different types of engines with computer programs
- Analyze fault codes
- Diagnose and repair engine systems according to manufacturers’ specifications
Revised Date: 8/2021