Course Title:
Engine Performance I

Catalog Description:

Engine Performance I identifies the proper techniques necessary to diagnose and repair OBDI I computer systems using diagnostic equipment. This course also covers fuel system components testing and repair.

Prerequisites or Necessary Entry Skills/Knowledge:
None

FULFILLS MN TRANSFER CURRICULUM AREA(S) *(Leave blank if not applicable)*

- 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:

- Emission systems
- Fuel systems
- Scanners, factory and manufacturer
- Resource, skills, and information management
<table>
<thead>
<tr>
<th>Student Learning Outcomes</th>
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<tbody>
<tr>
<td>Explain vehicle emission systems</td>
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<tr>
<td>Test fuel system/pressure</td>
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<td>Service system filters</td>
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<tr>
<td>Utilize scan tool</td>
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<tr>
<td>Explain diagnostic code</td>
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<tr>
<td>Analyze diagnostic code</td>
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<tr>
<td>Comply with personal and environmental safety practices associated with clothing; eye protection; hand tools; power equipment; proper ventilation; and the handling, storage, and disposal of chemicals/materials in accordance with local, state, and federal safety and environmental regulation.</td>
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*The required outcomes follow the Auto Service Technician (AST) model of the Board of the National Institute for Automotive Service Excellence (ASE)*

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

Revised Date: 04/2022