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## SECTION HEADING

### AUTO 2122: Engine Performance III

#### Description

Engine Performance III expands on the repair of automotive engine systems including ignition systems, emission controls, electronic engine controls, and engine performance diagnosis. Students will diagnose and repair all systems related to engine performance.

#### Credits

5

#### Prerequisite

AUTO 2121

#### Corequisite

None

#### Topics to be Covered

1. Analysis of can systems
2. Analysis of fuel injections, direct injection systems
3. Drivability concerns
4. Diagnosis of engine mechanical systems

#### Learning Outcomes

1. Analyze vehicle emission systems
2. Analyze engine vacuum.
3. Perform cylinder balance test.
4. Perform compression /cylinder leakage test
5. Analyze no-start condition.
6. Analyze engine mechanical problems.
7. Diagnose drivability concerns as it related to repair of drivability problems.
8. 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 regulations.
9. \*The required outcomes follow the Auto Service Technician (AST) model of the National Automotive Technical Education Foundation (NATEF) certification program.

#### Credit Details

Lecture: 2

Lab: 3

OJT: 0

MnTC Goal Area(s): None