

AUT 105 : DIESEL PERFORMANCE I

Transcript title

Diesel Performance I

Credits

2

Grading mode

Standard letter grades

Total contact hours

40

Lecture hours

10

Lab hours

30

Prerequisites

AUT 101, AUT 106, AUT 107, AUT 110 and AUT 115.

Course Description

Introduces principles of diesel systems and basic diagnosis. Includes engine analysis, cooling and exhaust systems, fuel management systems and diesel engines.

Course learning outcomes

1. Compare differences in diesel engine theory, gasoline engine theory, and turbocharging theory.
2. Perform testing on light duty diesel engine battery, starting systems, run/shutdown circuit operation, and glow plug/intake heater circuit operation.
3. Analyze diesel engine performance using exhaust temperature and compression testing.
4. Adjust the valves on diesel engine.
5. Describe light duty diesel engine cooling, lubrication and fuel system operation and maintenance.
6. Perform testing of traditional diesel engine injectors.
7. Describe and practice safety procedures while working on diesel engines.