

SECTION HEADING

DSL 1135: Fuel Injection Principles

Description

Fuel Injection Principles explains and demonstrates diesel engine operation with fuel systems, the basic repair and rebuilding of injectors and timing of the fuel system to the engine.

Credits

3

Topics to be Covered

1. Combustion chambers
2. Injectors
3. Engine timing
4. Fuel delivery

Learning Outcomes

1. Demonstrate injector test procedures
2. Reassemble and adjust injectors to manufacture specifications
3. Set and adjust timing on engines
4. Clean and repair injectors
5. Discuss combustion
6. Analyze the operation of an injector using a tester and identify repair necessary
7. Explain the effect on performance of an engine dependent on operation
8. Reference the stages of combustion and burning of fuel
9. Describe combustion chamber designs
10. Operate injectors

Credit Details

Lecture: 1

Lab: 2

OJT: 0