Course Prefix and Number: DSL 131  
Credits: 4

Course Title: Diesel Fuel Systems and Tune-Up

Course Description (including lecture hours, lab hours, total contacts)
Teaches maintenance, adjustment, testing, and general repair of the typical fuel injection components used on non-automotive diesel engines. Includes engine and fuel system tune-up procedures and troubleshooting using current diagnostic equipment. Lecture 2 hours. Laboratory 4 hours. Total 6 hours per week.

Course Prerequisites/Corequisites (Entry-level competencies required for enrollment)
None

Course Objectives (Each item should complete the following sentence.)
Upon completing the course, the student will be able to:

a. List the basic characteristics of diesel fuel and understand and list recommended storage and hauling procedures
b. List the basic types of governing devices used on diesel engines and understand their operation principles
c. List the basic types of fuel injectors and understand and list their servicing and adjustment procedures
d. List the tune-up and trouble-shooting procedures on diesel engines and understand and list anti-pollution control devices
e. List complete diesel engine tune-up and trouble-shooting procedures according to manufacturer specifications

Major Topics to be Included

a. Diesel fuels
b. Governors operation
c. Fuel injector nozzles and holders
d. Fuel injunction systems examined
e. Tune-up procedures
f. Trouble-shooting diesel engine fuel systems

Effective Date of Course Content Summary (Month, Date Year): 2/12/09