Course Prefix and Number: DSL 152  Credits: 4

Course Title: Diesel Power Trains, Chassis, and Suspension

Course Description: Studies the chassis, suspension, steering, and brake systems found on medium- and heavy-duty diesel trucks. Covers construction features, operating principles, and service procedures for such power train components as clutches, multi-speed transmissions, propeller shafts, and rear axles. Teaches operations of modern equipment to correct and adjust abnormalities. Lecture 2 hours. Laboratory 4 hours. Total 6 hours per week.

General Course Purpose: The students who want to enter the diesel technology field understand the operation of the power train components, chassis, and suspension.

Course Prerequisites and Co-requisites: None

Student Learning Outcomes:
Upon completing the course, the student will be able to perform general preventive maintenance and repairs to the power trains, chassis, and suspension of a medium-/heavy-duty truck.

Major Topics to Be Included:
a. Twin disc clutch
b. Medium-/heavy-duty transmissions
c. Rear axle carrier assembly
d. Steering systems
e. Suspension systems

Date Created/Updated (Month, Date, and Year): January 24, 2019