

J. Sargeant Reynolds Community College
Course Content Summary

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:

Course Objectives:

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

Effective Date of Course Content Summary: August 16, 2013