

**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:**

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