Course Prefix and Number: DSL 153

Course Title: Power Trains I

Course Description (including lecture hours, lab hours, total contacts)

Focuses on manual, hydrostatic, and heavy-duty automatic transmissions. Examines various types of power trains and their components, such as multidisc clutch, multi-speed transmissions, torques, drive lines, and differentials. Includes disassembly and assembly of various components. Part I of II. Lecture 2 hours. Laboratory 2 hours. Total 4 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. Identify various types of clutches and perform maintenance
b. Identify various transmission types and perform maintenance
c. Identify various drive lines and make proper adjustments and repairs
d. Identify various differential types and make proper repairs
e. Perform proper service and maintenance procedures

Major Topics to be Included

a. Single and multi-disc clutch
b. Multi-speed transmission
c. Drive lines
d. Single and multi-speed differentials

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