Course Prefix and Number:  DSL 176  Credits:  2

Course Title:  Transportation Air Conditioning

Course Description:  Studies fundamentals of transportation air conditioning. Includes repair, service, and troubleshooting of the refrigeration systems used in road vehicles and heavy equipment. Lecture 1 hour. Laboratory 2 hours. Total 3 hours per week.

General Course Purpose:

Course Prerequisites and Co-requisites:
None

Student Learning Outcomes:
Upon completing the course, the student will be able to
a. Demonstrate an understanding of the theory and principles of air-conditioning systems;
b. Identify the various components of an air-conditioning system and list their functions;
c. Conduct various diagnostic tests on a typical air-conditioning system;
d. Perform normal service procedures on a typical air-conditioning system; and
e. Diagnose faults in the air-conditioning system and perform the needed repairs.

Major Topics to Be Included:
a. Basics of air conditioning
b. Refrigerants and oils
c. Service equipment
d. System inspection
e. Diagnosing system
f. Testing and adjusting system

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