

**J. Sargeant Reynolds Community College
Course Content Summary**

Course Prefix and Number: DSL 124

Credits: 2

Course Title: Diesel Engine Systems II

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

Studies basic operational theory of the two and four-stroke cycle diesel engine used in public transportation vehicles. Covers the construction and function of the diesel engine and the major components as they relate to air, exhaust, and fuel systems. Emphasizes diesel engine tune-up and troubleshooting theory. Part II of II. Lecture 2 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. Use tune-up procedures on a diesel engine
- b. Exhibit trouble-shooting techniques on a diesel engine
- c. Exhibit proper preventative maintenance for a diesel engine

Major Topics to be Included

- a. Tune-up procedures for the bus diesel engine
- b. Principles of trouble shooting techniques for the bus diesel engine
- c. Preventative maintenance for the bus diesel engine

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