

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

**Course Prefix and Number: DSL 111**

**Credits: 2**

**Course Title:** Introduction to the Diesel Engine

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

Studies the modern diesel engine, including its fuel, cooling, induction, and exhaust systems. Covers construction, fabrication, maintenance, tune-up, and minor repair and adjustment. Lecture 1 hour. Laboratory 2 hours. Total 3 hours per week. 2 credits

**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. understand the basic construction of parent bore and sleeved engines.
- b. understand the basic operation of a diesel fuel system.
- c. understand how a basic cooling system operates.
- d. understand how a basic intake and exhaust system operates.

**Major Topics to be Included**

- a. Basic Construction
- b. Fuel System
- c. Cooling System
- d. Intake and Exhaust System

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