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