

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

Course Prefix and Number: DSL 126

Credits: 6

Course Title: Diesel Engine Reconditioning

Course Description: Provides basic knowledge of the construction, design, and application of selected modern diesel engines and their components. Covers induction and exhaust systems, cooling and lubricating systems, and fuel injection and governing systems. Provides opportunity to disassemble, inspect, recondition, reassemble, and test selected engines. Lecture 3 hours. Laboratory 6 hours. Total 9 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. Identify various types of diesel engines;
- b. Identify and describe the functions of parts to diesel engines;
- c. Disassemble and reassemble a selected diesel engine; and
- d. Describe the operation of the systems in a diesel engine.

Major Topics to Be Included:

- a. Cylinder block and internal components
- b. Cylinder head and valve train
- c. Induction and exhaust systems
- d. Cooling systems
- e. Lubrication systems

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