

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

Course Prefix and Number: DSL 160

Credits: 3

Course Title: Air Brake Systems

Course Description: Studies the basic operational theory of pneumatic and air brake systems as used in heavy-duty and public transportation vehicles. Covers various air control valves, test system components, and advanced air system schematics. Teaches proper service and preventative maintenance of systems. Lecture 2 hours. Laboratory 2 hours. Total 4 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 components of brake systems and make effective repairs;
- b. Identify and properly work with test system components; and
- c. Perform proper service and preventive maintenance procedures.

Major Topics to Be Included:

- a. Fundamentals of air brakes
- b. Test system components
- c. Service and preventive maintenance procedures

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