

**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

**Date Created/Updated (Month, Day, and Year):** January 24, 2019