

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

Course Prefix and Number: DSL 162

Credits: 2

Course Title: Air Brake Systems II

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

Studies the basic operational theory of pneumatic and air brake systems used in public transportation vehicles. Covers various air control valves, air and test system components, and advanced air system schematics. Part II of II. Lecture 2 hours per week.

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. Demonstrate an understanding of the operation, maintenance and trouble shooting of the air brake system
- b. Demonstrate an understanding of the operation and maintenance of the wedge and s-cam brake

Major Topics to be Included

- a. Air valves, relays and controls
- b. Wedge type brake
- c. S-cam brake

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