

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

Course Prefix and Number: DSL 172

Credits: 2

Course Title: Transportation Air Conditioning II

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

Studies the fundamentals of air conditioning systems used in public transportation vehicles. Includes the basic theory of operation, repair, servicing, and troubleshooting of the air conditioning system. Prerequisite sponsorship by a public transit authority and divisional approval. Lecture 2 hours per week.

General Course Purpose

To provide the student with a basic understanding of trouble shooting, diagnostic and repair procedures for transportation air conditioning systems.

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. Conduct various diagnostic tests on a typical air conditioning system
- b. Diagnose faults in the air conditioning system and perform the needed repairs

Major Topics to be Included

- a. System inspection
- b. Diagnosing system
- c. Testing and adjusting system
- d. Repair procedures

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