

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

Course Prefix and Number: DSL 141

Credits: 2

Course Title: Transportation Electrical Systems I

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

Studies basic operational theory of electrical systems used in public transportation vehicles. Covers electrical symbols, schematics, troubleshooting procedures, as well as the function, construction, and operation of the electrical system and its components. Part I 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. Define electrical terms
- b. Identify electrical symbols
- c. Demonstrate an understanding of storage batteries
- d. Explain series, parallel and other various electrical circuits

Major Topics to be Included

- a. How electricity works
- b. Electricity in transportation vehicles
- c. Storage batteries
- d. Basic electrical circuits

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