

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

Course Prefix and Number: WEL 122

Credits: 3

Course Title: Welding II (Electric Arc)

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

Teaches electric arc welding, including types of equipment, selection of electrodes, safety equipment and procedures, and principles and practices of welding. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

General Course Purpose

A required course for the Welding Career Studies Certificate

Course Prerequisites/Corequisites (*Entry-level competencies **required** for enrollment*)

Course Objectives (Each item should complete the following sentence.)

Upon completing the course, the student will be able to:

- a. Perform v-groove welds in all positions to the satisfaction of the instructor
- b. Display a working knowledge of the testing procedures used to test welds
- c. Display the ability to select proper electrodes for various work situations

Major Topics to be Included

- a. V-groove joints (all positions)
- b. Test procedures
- c. Electrode selection

Effective Date of Course Content Summary (Month, Date Year): 1-9-2009