J. Sargeant Reynolds Community College
Course Content Summary

Course Prefix and Number: WEL 130
Credits: 3

Course Title: Inert Gas Welding

Course Description (including lecture hours, lab hours, total contacts)
Introduces practical operations in the uses of inert-gas-shield arc welding. Discusses equipment, safety operations, welding practice in the various positions, process variations and applications, and manual and semi-automatic 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)
None

Course Objectives (Each item should complete the following sentence.)
Upon completing the course, the student will be able to:

a. Display knowledge of TIG and MIG welding equipment
b. Demonstrate knowledge of safety for TIG and MIG equipment
c. Demonstrate proper adjustment and set-up of TIG and MIG equipment
d. Perform various welds in all positions with TIG and MIG equipment

Major Topics to be Included

a. TIG and MIG welding equipment
b. Safety
c. TIG and MIG equipment set-up
d. Position welding

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