J. Sargeant Reynolds Community College
Course Content Summary

Course Prefix and Number: WEL 126                      Credits: 3

Course Title: Pipe Welding

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

Teaches metal arc welding processes including the welding of pressure piping in the horizontal, vertical, and horizontal-fixed positions in accordance with section IX of the ASME Code. Lecture 2 hours. Laboratory 3 hours. Total 5 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. Develop a basic understanding of pipe layout
b. Identify the more commonly used pipe symbols
c. Develop an understanding of the basic terms and nomenclature associated with pipe and pipe welding
d. Develop the skills necessary to properly weld a wide variety of pipe.
e. Develop the skills necessary to use the basic tools needed to layout pipe for fabrication and welding

Major Topics to be Included

a. Safety
b. Pipe symbols, nomenclature, terminology
c. Pipe layout and fabrication
d. Tools and equipment
e. Pipe welding
f. Section IX of the ASME Code

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