

**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