

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

Course Prefix and Number: WEL 127 **Credits:** 3

Course Title: Pipe Welding II

Course Description:

Provides practice in the welding of pressure piping in the horizontal, vertical, and fixed positions. Laboratory 9 hours. Total 9 hours per week.

General Course Purpose:

WEL 127 is the second of two courses in pipe welding designed to teach the student the theory and application in accordance with Section IX of A.S.M.E. Code. Welders with previous experience in pipe welding will find WEL 127 educational as a refresher course.

Course Prerequisites and Co-requisites:

None.

Student Learning Outcomes:

Upon completion of this course the student will be able to:

- demonstrate proficient knowledge of preparation and set-up of pipe spools
- demonstrate their technique of welding in the 2G, 5G and 6G positions
- demonstrate their knowledge of the Qualification Test requirements
- demonstrate their knowledge of safety and set-up in the lab areas at all times

Major Topics:

- Preparation of stock and set-up stock and set-up
- ASME Code and Qualification Test requirements
- Welding pipe in the 2G position
- Welding pipe in the 5G position
- Welding pipe in the 6G position

Extra Topics (optional)

- Welding pipe with the oxyacetylene, M.I.G., and T.I.G. processes
- Qualification testing for certification

Effective Date/Updated: September 28, 2023