

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

Course Prefix and Number: WEL 150

Credits: 2

Course Title: Welding Drawing and Interpretation

Course Description: Teaches fundamentals required for successful drafting as applied to the welding industry. Includes blueprint reading, geometric principles of drafting and freehand sketching, basic principles of orthographic projection, preparation of welding drawings, and interpretation of symbols. Lecture 2 hours per week.

General Course Purpose: To provide students with a basic knowledge of welding drawings and symbols needed from which to fabricate parts, to gain employment in the welding field.

Student Learning Outcomes:

Upon completing the course, the student will be able to

- a. Demonstrate a basic understanding of welding drawings and prints;
- b. Recognize basic welding symbols; and
- c. Demonstrate the ability to sketch drawings from which to fabricate parts.

Major Topics to Be Included:

- a. Types of prints
- b. Elements of drawings
- c. Structural shapes
- d. Measurements and dimensions
- e. Drawing and sketching methods
- f. Welding symbols

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