

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

**Course Prefix and Number:** WEL 141

**Credits:** 3

**Course Title:** Welder Qualification Tests I

**Course Description:** Studies techniques and practices of testing welded joints through destructive and non-destructive testing. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

**General Course Purpose:** To assist students in acquiring the skills and techniques necessary to become a certified welder.

**Student Learning Outcomes:**

Upon completing the course, the student should have the knowledge to prepare and weld a v-groove plate to AWS qualification requirements successfully.

**Major Topics to Be Included:**

- a. Destructive and non-destructive testing
- b. Proper preparation and setup of qualification plates
- c. Proper techniques used for welding qualification plates
- d. Preparation of coupons for testing

**Date Created/Updated (Month, Day, and Year):** January 12, 2019