

**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. Part I of II. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week. 3 credits

**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:**

- Destructive and non-destructive testing
- Proper preparation and setup of qualification plates
- Proper techniques used for welding qualification plates
- Preparation of coupons for testing

**Effective Date/Updated:** January 12, 2019