

**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.

**Course Objectives:**

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

**Major Topics to be Included:**

1. Destructive and non-destructive testing.
2. Proper preparation and setup of qualification plates.
3. Proper techniques used for welding qualification plates.
4. Preparation of coupons for testing.

**Effective Date of Course Content Summary:** November 20, 2012