

WPT 213 - WELD QUALITY TESTING

Course Description

Class to cover theory and practical use of common methods of non-destructive examination. Processes include dye penetrant, ultrasonic, and magnetic particle. Familiarity with prevalent AWS codes and standards will be emphasized. Group 2 course.

Credit Hours

3

Contact Hours

5

Lecture Hours

1

Lab Hours

4

Required Prerequisites

WPT 211

Recommended Prerequisites or Skills

Competencies

DD 101, DD 110

General Education Outcomes supported by this course

Critical Thinking - Direct

Course Learning Outcomes

Knowledge:

- Identify common testing equipment.
- Determine recommended procedures through industry resources.

Application:

- Evaluate complex assemblies in conformance to code specifications.
- Demonstrate process capabilities using formulae.

Integration:

- Analyze welds for discontinuities.
- Assess process capabilities to determine efficacy in various applications.

Human Dimension:

- Support the progress of others through collaboration.

Caring - Civic Learning:

- Demonstrate shop etiquette.
- Reflect on the value of attitude in the industrial environment.

Learning How to Learn:

- Demonstrate perseverance when developing skills.
- Synthesize new material with old in order to improve outcomes.