

# WPT 213 - WELD QUALITY TESTING

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## Course Description

Class to cover theory and practical use of common methods of non-destructive examination. Processes include dye penetrant, ultrasonic, magnetic particle, and radiographic testing. Familiarity with prevalent 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.