

# WPT 113 - WELDING THEORY II

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## Course Description

Second level lecture for all students enrolled in a Welding Technology Degree or Certificate Program. Course will cover theory and technique for Gas Metal Arc Welding, Gas Tungsten Arc Welding, and Arc Cutting Processes. Group 2 course.

## Credit Hours

3

## Contact Hours

3

## Lecture Hours

3

## Required Prerequisites

WPT 111

## Corequisites

WPT 114

## General Education Outcomes supported by this course

Quantitative Reasoning

## Course Learning Outcomes

### Knowledge:

- Define terminology common to the welding trade as defined by the American Welding Society.
- Identify safety hazards.
- Describe common industry Personal Protective Equipment.

### Application:

- Apply knowledge of process fundamentals to hypothetical problems.
- Use formulae to calculate welding related values.

### Integration:

- Apply Ohm's Law when trouble shooting arc welding processes.

### Human Dimension:

- Recognize the importance of weld quality on the health, safety, and welfare of the public.

### Caring - Civic Learning:

- Be cognizant of their personal impact on the quality of the projects.

### Learning How to Learn:

- Evaluate hypothetical applications to determine efficacy of different processes.