

WPT 113 - WELDING THEORY II

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.