

WPT 131 - SMAW (ARC) WELDING II

Course Description

This course provides the student with advanced theory and application of Shielded Metal Arc Welding (SMAW) techniques in the flat, horizontal and vertical positions using "fast freeze" and "low hydrogen" electrodes. Topics include weld quality, inspection, power sources, and troubleshooting. Group 2 course.

Credit Hours

3

Contact Hours

5

Lecture Hours

1

Lab Hours

4

Required Prerequisites

WPT130

General Education Outcomes supported by this course

Quantitative Reasoning

Course Learning Outcomes

Knowledge:

- Understand and use terminology common to the welding trade as defined by the American Welding Society (AWS).

Application:

- Demonstrate proper handling, setup, and adjustment of SMAW equipment.

Integration:

- Demonstrate the ability to complete welds on steel in the flat, horizontal, and vertical positions with the SMAW process.

Human Dimension:

- Students will recognize the importance of weld quality on the health, safety, and welfare of the public.

Caring - Civic Learning:

- Students will be aware of their personal impact on the quality of the projects in which they are involved.

Learning How to Learn:

- Students will evaluate hypothetical applications and determine efficacy of different processes.