

WPT 141 - GMAW (MIG) WELDING II

Course Description

This course provides students the opportunity to learn and apply safe welding techniques using the Gas Metal Arc Welding (GMAW) process on ferrous and non-ferrous metals on advanced joint designs and welding positions. Group 2 course.

Credit Hours

2

Contact Hours

3

Lecture Hours

1

Lab Hours

2

Required Prerequisites

WPT140

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 GMAW equipment.

Integration:

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