

# WPT 121 - GTAW (TIG) WELDING II

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## Course Description

This course provides students the opportunity to learn and apply welding techniques using the Gas Tungsten Arc Welding (GTAW) process on ferrous metals and aluminum on complex joints and in the vertical position. Group 2 course.

## Credit Hours

2

## Contact Hours

3

## Lecture Hours

1

## Lab Hours

2

## Required Prerequisites

WPT120

## 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 GTAW equipment.

### Integration:

- Demonstrate the ability to complete welds on ferrous metals and aluminum in the flat and horizontal positions with the GTAW 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.