

# WPT 120 - GTAW (TIG) WELDING I

---

## Course Description

This course provides the student with the opportunity to learn and apply the theory of basic Gas Tungsten Arc Welding (GTAW) techniques on ferrous and non-ferrous metals in the flat and horizontal positions. Group 2 course.

## Credit Hours

2

## Contact Hours

3

## Lecture Hours

1

## Lab Hours

2

## Required Prerequisites

WPT 110

## 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:

- Collaborate with other students to clarify concepts, explain requirements, and critique each other's work related to course standards and the ability to independently perform required welds.

### Caring - Civic Learning:

- Demonstrate safe procedures in all welding and shop activities.

### Learning How to Learn:

- Demonstrate the ability to identify weld defects and make required techniques and parameter corrections to produce sound welds.