

# PIPE WELDING CERTIFICATE OF ACHIEVEMENT

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This certificate will give students an introduction into pipe welding with all of the four major welding processes used in the industry. These include SMAW, GMAW, FCAW-G, FCAW-S, and GTAW.

Code	Title	Units
<b>Required Courses:</b>		
WELD 017	Gas Tungsten Arc Welding - Advanced	3
WELD 047	Preparation for Shielded Metal Arc Welding (SMAW) Pipe	3
WELD 048	Shielded Metal Arc Welding (SMAW) - Pipe	4
WELD 082	Gas Metal Arc Welding - Advanced	3
WELD 092	Flux Cored Arc Welding - Advanced	3
<b>Total Units</b>		<b>16</b>

*Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.*

***This is a Gainful Employment Program***

## Program Learning Outcomes

**At the completion of this program, students will be able to:**

- Show an understanding of the safety precautions for working in a welding lab and demonstrate an awareness of the importance of safety in welding.
- Use tools related to the welding industries.
- Read and interpret prints and shop drawings to produce quality welds.
- Read and understand Welder Procedure Specification to produce quality welds.
- Fabricate and layout parts that meet quality standards.
- Pass a Welder Performance Qualification Test that meets the standard of acceptability to a National Standard.