

# WELDING TECHNOLOGY - CERTIFICATE OF ACHIEVEMENT

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**Plan Code: 3988**

This program is designed to prepare students for a variety of entry-level positions in today's construction and fabrication industries. Upon completion students will have a thorough knowledge of welding safety, theory and procedures, in accordance with the American Welding Society SENSE (Schools Excelling through National Skills Education) Entry Welder program, as well as the skill to perform a variety of welding processes. Successful completion of this degree will prepare students for the following career opportunities: welder, welding inspector, welding technician/fitter, pipe fitter/welder, and metal fabricator.

## Program Student Learning Outcomes

- Demonstrate advanced level skills to produce quality welds in the flat, horizontal, vertical, and overhead positions using the SMAW (Shielded Metal Arc Welding) process.
- Demonstrate advanced level skills to produce quality welds in the flat, horizontal, and vertical positions using the GTAW (Gas Tungsten Arc Welding) process.

## Program Requirements

Code Number	Course Title	Units
<b>REQUIRED COURSES</b>		
MTFAB 50	Introduction to Metalworking	4
MTFAB 204	Power Metalworking Machine Operations	4
MTFAB 260	Blueprint Reading for Metal Fabrication	3
MTFAB 270	Metallurgy	2.5
WELD 50	Introduction to Welding	4
WELD 211	Oxy-fuel Welding and Cutting Technology	2
WELD 212	Introduction to Shielded Metal Arc Welding	4
WELD 213	Introduction to Semi-Automatic Welding	4
WELD 214	Introduction to Gas Tungsten Arc Welding	4
<b>Total Units</b>		<b>31.5</b>