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Plan Code: 3988

The Certificate of Achievement in Welding Technology 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.

- 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.

Code Number	Course Title	Units
REQUIRED COURSES		
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 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

# GAS TUNGSTEN ARC WELDING (GTAW) - CERTIFICATE OF ACHIEVEMENT

Plan Code: 3989

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## Program Student Learning Outcomes

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## Program Requirements

Code Number	Course Title	Units
REQUIRED COURSES		
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Total Units		16



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Plan Code: 3979

The Certificate of Achievement in Semi-Automatic Welding w A i

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The Certificate of Completion in Exploring Welding and Metal Fabrication is designed for those interested in exploring the welding and metal fabrication fields. Course work includes an entry-level study with an emphasis on the safe application of fundamental metal fabrication and welding techniques and practices. This program prepares the student for an entry-level position in the metal fabrication and/or welding industry.

### Exploring Welding and Metal Fabrication

- Demonstrate the basic skills to safely model, fabricate and weld a metal part.

### Exploring Metal Fabrication

Course	Exploring Welding	Exploring Metal Fabrication	Credits
WELD 601	Exploring Welding		18
MTFAB 601		Exploring Metal Fabrication	18
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