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# WELDING, FLUX-CORED ARC WELDING (FCAW) & GAS TUNGSTEN ARC WELDING (GTAW), SC

### **Program Description**

This Skills Certificate will prepare students to take the American Welding Society (AWS) certified welding (CW) exams. Students will learn various cutting processes and develop manual skills using FCAW, GTAW, and plasma arc cutting (PAC) processes that comply with AWS standards, including critical safety procedures. Students will learn to fabricate simple parts from basic drawings, sketches, and technical plans. Students must pass all coursework with a score of 75% or higher.

This program is not eligible for financial aid. However, it may be eligible for scholarship funding if the student is awarded scholarships.

Welding Technology Career Map (https://sites.tmcc.edu/flipbook/careermaps/)

### **Recommended Course Schedule**

1st semester	r	Units
WELD 231	Welding III	3
WELD 232	Welding III Practice	2
WELD 241	Welding IV	3
WELD 242	Welding IV Practice	2
	Semester Total	10
	Total Units	10

## **Program Requirements**

Skills Certificates can consist of a single course or a short set of courses that provide training for entry-level positions or career advancement. These short-term certificates may also prepare students to take state, national and/or industry-recognized certifications or licensing exams.

Skills certificates are awarded upon completion of coursework and marked on a student's transcripts at the end of the semester. Students cannot declare a skills certificate as one's major. Skills Certificates are not eligible for Financial Aid.

To earn a skills certificate, students must:

- 1. Maintain a minimum cumulative GPA of 2.0.
- 2. Have no financial or library obligation to the college.

Code	Title	Units	
Certificate Requirements			
WELD 231	Welding III	3	
WELD 232	Welding III Practice	2	
WELD 241	Welding IV	3	
WELD 242	Welding IV Practice	2	
Total Units	10		

#### **Program Outcomes**

Students completing the certificate will:

PSLO1: Use the FCAW, GTAW, and plasma arc cutting processes to produce a variety of welds.

PSLO2: Fabricate simple parts from basic drawings, sketches, and technical plans.

PSLO3: Demonstrate appropriate workplace skills and tools, including the application of personal and mechanical safety measures for using welding equipment and techniques.