

METAL FABRICATION, SC

Program Description

The Metal Fabrication Skills Certificate provides students who have completed the Welding Fundamentals Skills Certificate and wish to pursue employment in the metal fabrication and ornamental/architectural metalwork industries the fundamental skills to gain employment in those industries. Upon completion, students will be able to safely use metal fabrication tools and techniques (including gas metal arc welding and flux-cored arc welding) to construct metal fabrications according to workshop drawings.

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/career-maps/>)

Recommended Course Schedule

1st semester		Units
WELD 231	Welding III	3
WELD 232	Welding III Practice	2
WELD 215	Introduction to Welding Fabrication Techniques	3
Semester Total		8
Total Units		8

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 215	Introduction to Welding Fabrication Techniques	3
Total Units		8

Program Outcomes

Students completing the certificate will:

- PSL01: Students will safely set-up and use the required equipment for metal fabrication.

- PSL02: Students will identify fit-up and finish techniques for metal fabrication.
- PSL03: Students will follow workshop drawings to complete metal fabrication projects.
- PSL04: Students will set up and operate the required equipment to produce fillet and groove welds according to industry standards using the gas metal arc welding and flux-cored arc welding processes.