

Metal Fabrication/Welding Certificate

The metal fabrication/welding certificate teaches welding skills in the areas of shielded metal arc welding (SMAW), gas metal arc welding (GMAW), flux core arc welding (FCAW), gas and tungsten arc welding (GTAW), oxy-fuel welding (OFW), oxy-fuel cutting (OFC), and plasma arc cutting (PAC). The students also will receive training in safety and basic blueprint reading, and metallurgy. This certificate gives the student the skills needed to successfully enter the field of welding.

(Major Code 5380; CIP Code 48.0508)

Welding (Metal Fabrication) Program web page (<http://www.jccc.edu/academics/credit/welding/>)

Certificate Requirements

First Semester

Code	Title	Hours
COMS 155	Workplace Skills	1
MFAB 124	Introduction to Welding	3
MFAB 126	Cutting Processes for Welding*	3
MFAB 131	Shielded Metal Arc Welding (SMAW) I*	3
MFAB 180	Blueprint and Symbols Reading for Welders	2
MFAB 205	Shielded Metal Arc Welding (SMAW) II*	3
Total Hours		15

Second Semester

Code	Title	Hours
CMGT 100	Industrial Safety/OSHA-30	3
MFAB 133	Gas Metal Arc Welding (GMAW) I*	3
MFAB 136	Gas Tungsten Arc Welding (GTAW) I*	3
MFAB 210	Gas Metal Arc Welding (GMAW) II*	3
MFAB 240	Metallurgy	2
MFAB 241	Gas Tungsten Arc Welding (GTAW) II*	3
Total Hours		17

Total Program Hours: 32

* This course has registration requirements.