

# 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 4790; State CIP Code 48.0508)

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

## First Semester

COMS 155	Workplace Skills	1
MFAB 124	Introduction to 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
MFAB 240	Metallurgy	2
<b>Total Hours</b>		<b>14</b>

## Second Semester

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 241	Gas Tungsten Arc Welding (GTAW) II*	3
<b>Total Hours</b>		<b>15</b>

**Total Program Hours: 29**