

Fullerton College Welding Technology

There are thousands of different welder certifications/qualifications; no one has them all.

“Each manufacturer or Contractor **shall** be responsible for the qualification of welders . . . conducted by the manufacturer, Contractor, or an independent testing agency.” -AWS D1.1:2020 6.2.2.2

Topics Covered by Course

General Skills	Fullerton College Course
Safe Work Practices	Weld 091A/B/C/D, 095/6/8, 100/120
Oxyacetylene Welding (OAW)	Weld 091A or 100
Oxyacetylene Cutting (OFC-A)	Weld 091A or 100
Plasma Arc Cutting (PAC)	Weld 091A or 100
Air Carbon Arc Cutting (CAC-A)	Weld 091A or 100
Base metal preparation & grinding	Weld 091A or 100
Fabrication layout and fit up	Weld 098
Completed weld evaluation	Weld 091A or 100 or 096
Gas Metal Arc Welding (GMAW)	Weld 091B or 120
Shielded Metal Arc Welding (SMAW)	Weld 091C or 091D
Gas Tungsten Arc Welding (GTAW)	Weld 091C or 120
Flux Cored Arc Welding (FCAW)	Weld 091B or 091D

Program Pathway

Certification	Fullerton College Course
1 GMAW on 1/8” steel in 2G & 3G positions	Weld 091B or 120
2 SMAW on 1” steel in 3G & 4G positions (E7018)	Weld 091C or 091D
<i>Apply for LA City Welding License</i>	
3 GTAW on 1/16” steel in 2G & 3G positions	Weld 091C or 120

Pursue workplace welding experience while continuing welding education. Search Monster, Indeed, FC Career Center, AWS jobs in welding, union/employer apprenticeship programs, etc. for employment and create LinkedIn profile.

Certification	Fullerton College Course
4 GTAW on 1/16” stainless steel in 2G & 3G positions	Weld 091C or 120
5 GTAW on 1/8” aluminum in 2G & 3G positions	Weld 091C or 120
6 FCAW-S on 1” steel in 3G & 4G positions (E71T-8)	Weld 091B or 091D
7 FCAW-G on 3/8” steel in 3G & 4G positions (E71T-1)	Weld 091B or 091D

You are now highly employable as a welder and should actively pursue workplace welding experience.

Certification	Fullerton College Course
8 SMAW on 6” schedule 80 pipe in 6G (E6010 root, E7018 fill/cover)	Weld 091D or 095

AFTER completing the above certifications, then practice the following

GMAW on steel and stainless steel sheet/plate using spray and pulsed spray modes of transfer
GMAW on aluminum sheet/plate
SMAW & GTAW on pipe (2G, 5G, & 6G, various diameters/thicknesses)
GMAW (RMD/STT and pulsed spray) and FCAW-G on pipe (2G, 5G, & 6G, various diameters/thicknesses)