

# WELDING TECHNOLOGY - CERT C

The Welding program prepares individuals to apply technical knowledge and skills to join or cut metal surfaces. Instruction includes Shielded Metal Arc Welding (SMAW); Gas Metal Arc Welding (GMAW); Flux Cored Arc Welding (FCAW) and cutting processes. Related technical instruction also includes quality assurance and control, print reading, safety, and workplace skills.

Students entering the Welding program will have one entry point and four possible exit points - Cert A, Cert B, Cert C or an Associate of Applied Science (AAS) degree.

The Washburn Tech Welding Technology program is in alignment with the National Center for Education Statistics (NCES) CIP Code 48.0508: Welding Technology/Welder. A program that prepares individuals to apply technical knowledge and skills to join or cut metal surfaces. Includes instruction in arc welding, resistance welding, brazing and soldering, cutting, high-energy beam welding and cutting, solid state welding, ferrous and non-ferrous materials, oxidation-reduction reactions, welding metallurgy, welding processes and heat treating, structural design, safety, and applicable codes and standards.

## Program Information

- Program Start (semesters): August; January
- Financial Aid available (for post-secondary students only): Yes
- Veteran Benefits Eligible (for post-secondary students only): Yes
- Industry-recognized credentials: AWS 1F; AWS 1G; AWS 2F; OSHA-10 General Industry

## Certificate Requirements

Code	Title	Hours
IND 105 or IND 109	OSHA - 10 Hr Gen Industry Cert OSHA - 30 Hour Const Ind Cert	1-2
WEL 105	Welding Blueprint Reading	3
WEL 120	Oxy-Fuel/Cutting Procedures	3
WEL 131	Shielded Metal Arc Welding I	3
WEL 135	Shielded Metal Arc Welding II	3
WEL 141	Gas Metal Arc Welding I	3
WEL 145	Gas Metal Arc Welding II	3
WEL 246	Gas Tungsten Arc Welding I	3
WEL 221	Flux Cored Arc Welding I	3
MAT 101	Technical Math I	3
WEL 227	Welding Metallurgy	3
WEL 267	Gas Tungsten Arc Welding II	3
WEL 240	Gas Metal Arc Welding- Plate	3
GEN 101	Workplace Skills and Safety	3
WEL 295	Welding Layout	3
WEL 170	Welding Inspection & Qualifications	3
WEL 270	Welding Fabrication	3
<b>Total Hours</b>		<b>49-50</b>