

WELDING TECHNICIAN – Advanced

Full Year, A or B day, PM Only

Utah CTE Pathway: Welding and Machining



Instructor: Alex Snell

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ADVANCED WELDING DESCRIPTION: This Advanced Welding course is designed for students ready to demonstrate a high level of proficiency in key welding processes—GMAW, SMAW, GTAW, and FCAW—and advanced cutting techniques, including oxy-fuel, plasma, and mechanical methods. Students will undertake complex tasks such as designing and fabricating projects, interpreting detailed blueprints, and operating CNC cutting equipment. In addition to technical expertise, this course requires students to consistently exhibit critical employability skills: strict punctuality, reliable attendance, effective teamwork, and unwavering commitment to safety protocols. Only students who successfully complete the Entry-Level Welding course, meeting all attendance, punctuality, and performance benchmarks, may enroll in this rigorous course.

Prerequisites: Entry Level Welding Course: Meet required attendance, punctuality, and performance benchmarks.

Course Length: 1 year, A or B day, PM session only.

High School Credit: CTE or Elective Credits; up to 2 credits.

Concurrent Enrollment: 4 college credits. Student is responsible to register and pay for concurrent enrollment classes at WSU. For more information on these classes, see Appendix.

Skill Certifications: Utah Intermediate & Advanced Level Welder State Skill Test. AWS SENSE Entry level Welder Certifications.

Recommended: Students who have successfully completed the entry level course and are serious about a career related to welding.

Class Focus: Mastering welding skills, acquiring AWS SENSE certifications, and complex project design and fabrication.

Fees & Equipment: Estimated at \$350 required fee + safe work clothes, boots, and glasses.



COURSE DESCRIPTION:

WEBER STATE – MFET 2153 & MFET 2670: Theory and Skills course that require students to demonstrate theoretical knowledge alongside proficient skills using Gas Metal Arc Welding, Flux Core Arc Welding and Gas Tungsten Arc Welding.

Costs/Fees for the 2026-2027 school year: Subject to change and are pending school board approval.

Career Possibilities:

Welding Technician
Welding Repair Technician

Welding Engineer
Welding Salesman

Welding Inspector
Welding Instructor



"I believe that in joining welding, I have greatly improved my future in many fields and I will almost never have financial troubles". Shawn

"Taking the welding class has helped me a lot. I have learned skills that will help me throughout my life. I am very glad to have taken the class". Austin

"Taking this class has been a very good experience for me. I have learned valuable life skills and more". Anthony

"Welding is an invaluable skill. There are many job opportunities for a certified welder. Welding is all over the world and in many fields such as underwater and construction. Welding teaches patience and control. It truly is a valuable skill to learn". Caleb

