

CFISD Welding II

Scope and Sequence

Endorsement: Business & Industry**Cluster:** Manufacturing**Meets advanced course requirement?** YES ▾**Program of Study:** Welding**Meets foundation requirement for math, science, fine arts, English, LOTE?** NO ▾**Course Description:**

This advanced level Career and Technical course is for students interested in welding as a career. Advanced Welding builds on knowledge and skills developed in the previous welding course. Training for employment with advance-level skills in welding trades will be emphasized. Instruction follows an industry standard curriculum, and students' certifications are listed in a national registry upon successful completion. Oxy-fuel welding and cutting, plasma arc cutting, shielded metal arc welding, gas metal arc welding, flux cored arc welding, and gas tungsten arc welding will be covered. Hand and power tools, welding on various types of metals, reading blueprint welding symbols, metal characteristics, and equipment setup are other areas that students master. Safety, leadership, entrepreneurship, and career opportunities are included.

TEKS link

- 2 credits
- Grades 11-12
- Lab supplies or fee may be required
- Required prerequisites: Welding I

Industry Certification/Credential: AWS D1.1**TEA recognized IBC (to count toward program of study completion)?** YES ▾

Instructional Units	Grading Period
Professionalism/Employability Shop, Machine, and Equipment safety Safe set-up of machines Blueprint Reading	N1 (fall)
SMAW Recap and Advanced Techniques Pipe Welding	N2 (fall)
SMAW Advanced Techniques GTAW Introduction GTAW Certification Testing	N3 (spring)
Special Processes Resumes Industry Practicum	N4 (spring)

Primary Instructional Materials: iCEV Architecture, Construction, Transportation & Manufacturing