

CFISD Welding II

Scope and Sequence

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.

- Grades 11 – 12
- Required prerequisite: *Welding I*
- A letter of interest may be required if demand exceeds number of available slots.
- Lab supplies or fee is required
- These classes are only offered on approved campuses; district travel may be required.

TEKS

Program of Study: Manufacturing

Cluster: *Manufacturing*

Endorsement: *Business & Industry*

- Meets advanced course requirement (Y/N): Yes
- Meets foundation requirement for math, science, fine arts, English, LOTE (Y/N-area): No

Industry Certification/Credentials: *American Welding Society Certification(s)*

Instructional Units	Pacing
<p>1st Semester</p> <p>Professionalism/Employability</p> <p>Shop, Machine, and Equipment safety</p> <p>Safe set-up of machines</p> <p>Blueprint Reading</p> <p>SMAW Recap and Advanced Techniques (<i>End of 1st and Beg of 2nd Grade Per</i>) Pipe Welding</p> <p>FCAW Welding 1F & 1G</p>	<p>1st Grading Per</p> <p>2nd Grading Per</p>
<p>2nd Semester</p> <p>FCAW Welding 2F & 2G, 3F & 3G, 4F & 4G</p> <p>GTAW Introduction</p> <p>GTAW 1F & 1G, 2F & 2G</p> <p>Special Processes</p> <p>Resumes</p> <p>Industry Practicum</p> <p>SMAW-GTAW-GMAW-FCAW</p> <p>Certification Testing</p>	<p>3rd Grading Per</p> <p>4th Grading Per</p>

Primary Instructional Materials: *NCCER Welding- Pearson*