

<p style="text-align: center;">Welding II TEKS/LINKS – Student Objectives Two Credits</p>	<p style="text-align: center;">Suggested Time Ranges</p>
<p>First Six Weeks</p>	
<p>Team Performance WELD II 1(A) The student will express ideas to others in a clear, concise, and effective manner through written and verbal communication. WELD II 1(B) The student will convey written information that is easily understandable to others. WELD II 1(C) The student will demonstrate acceptable work ethics in reporting for duty and performing assigned tasks as directed. WELD II 1(D) The student will conduct oneself in a manner acceptable for the profession and work site such as suitable dress and polite speech. WELD II 1(E) The student will choose the ethical course of action and comply with all applicable rules, laws, and regulations. WELD II 1(F) The student will review the fine, detailed aspects of both quantitative and qualitative work process and end products. WELD II 1(G) The student will evaluate systems and operations; identify causes, problems, patterns, or issues; and explore workable solutions or remedies to improve situations. WELD II 1(H) The student will follow written and oral instructions and adhere to established business practices, policies, and procedures, including health and safety rules. WELD II 1(I) The student will prioritize tasks, follow schedules, and work toward goal-relevant activities in an effective, efficient manner. WELD II 1(J) The student will analyze how teams function. WELD II 1(K) The student will evaluate employers' work expectations to measure project success.</p>	<p style="text-align: center;">8 days</p>
<p>Prepare for Workplace WELD II 2(A) The student will determine academic knowledge and skills required for postsecondary education. WELD II 2(B) The student will identify employers' expectations to foster positive customer satisfaction. WELD II 2(C) The student will demonstrate the professional standards required in the workplace such as interviewing skills, flexibility, willingness to learn new skills and acquire knowledge, self-discipline, self-worth, positive attitude, and integrity in a work situation. WELD II 2(D) The student will evaluate progress toward personal career goals. WELD II 2(E) The student will communicate effectively with others in the workplace to clarify objectives. WELD II 2(F) The student will apply knowledge and skills related to health and safety in the workplace as specified by appropriate governmental</p>	<p style="text-align: center;">8 days</p>

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<p>regulations.</p>	
<p>Mathematic Skills & Tools WELD II 3(A) The student will demonstrate mathematical skills to estimate costs. WELD II 3(B) The student will explain the impact of accurate readings of measuring devices on cost estimates. WELD II 3(C) The student will justify the selection of a tool to make accurate measurements. WELD II 3(D) The student will compute measurements such as area, surface area, volume, and perimeter. WELD II 3(E) The student will solve problems using whole numbers, fractions, mixed numbers, and decimals. WELD II 3(F) The student will apply right triangle relationships using the Pythagorean Theorem. WELD II 3(G) The student will select a mathematical formula for estimation.</p>	<p style="text-align: center;">12 days</p>
<p>Second Six Weeks</p>	
<p>Safety WELD II 4(A) The student will use welding equipment according to safety standards. WELD II 4(B) The student will dispose of environmentally hazardous materials used in welding. WELD II 4(C) The student will explain the importance of recycling materials used in welding. WELD II 4(D) The student will evaluate the performance impact of emerging technologies in welding.</p>	<p style="text-align: center;">14 days</p>
<p>Safety WELD II 4(E) The student will use appropriate personal protective equipment to follow safety measures. WELD II 4(F) The student will investigate the use of automated welding machines such as numerical control, computer numerical control, and robotics-controlled welding machines.</p>	<p style="text-align: center;">9 days</p>
<p>Blueprints WELD II 5(A) The student will use engineering drawings to complete an advanced project. WELD II 5(B) The student will evaluate projects using engineering drawings specifications.</p>	<p style="text-align: center;">2 days ongoing</p>

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Third Six Weeks	
Project WELD II 6(A) The student will work independently in fabricating welded projects. WELD II 6(B) The student will work collaboratively with other students to complete a real-world application item. WELD II 6(C) The student will troubleshoot equipment.	20 days
Inspection WELD II 7(A) The student will inspect welding projects of team members. WELD II 7(B) The student will select codes for weld inspections. WELD II 7(C) The student will critique and evaluate the weldments of team members.	5 days
Fourth Six Weeks	
Advanced Cutting WELD II 8(A) The student will observe safe operating practices. WELD II 8(B) The student will apply safe handling of compressed gases. WELD II 8(C) The student will perform cutting processes according to accepted welding standards.	15 days ongoing
Shape Cutting WELD II 9(A) The student will employ safe operating practices. WELD II 9(B) The student will demonstrate skills required to make welds in all positions according to the American Welding Society (AWS) Schools Excelling through National Skills Education (SENSE).	15 days ongoing
Safety WELD II 10(A) The student will use safe operating practice.	2 days ongoing
Fifth Six Weeks	
Fillet & Groove Welds WELD II 11(A) The student will use safe operating practices. WELD II 11(B) The student will perform fillet and groove welds in all positions. WELD II 11(C) The student will perform welds on metals such as carbon steel, stainless steel, pipe, and aluminum to AWS SENSE welding standards.	22 days

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<p>*AWS - The student will review use of equipment and proper welding procedures.</p>	<p style="text-align: center;">11 days</p>
<p>Sixth Six Weeks</p>	
<p>Welds on Metal WELD II 13(E) The student will perform welds on metals such as carbon steel, stainless steel, pipe, and aluminum.</p>	<p style="text-align: center;">23 days</p>
<p>*AWS - Student will review use of equipment and proper welding procedures.</p>	<p style="text-align: center;">10 days</p>

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