



Welding

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The Welding Program of Study focuses on the development and use of automatic and computer-controlled machines, tools, and robots that perform work on metal or plastic. CTE learners will learn how to modify parts to make or repair machine tools or maintain individual machines, and how to use hand-welding or flame-cutting equipment.

Levels	Courses
Level 1	Principles of Agriculture, Food & Natural Resources 9
Level 2	Agricultural Mechanics and Metal Technologies/Lab 10-12
Level 3	Agricultural Structures, Design and Fabrication/Lab 10-12
Level 4	Practicum in Agriculture, Food & Natural Resources 11-12 <i>+NCCER Core Curriculum</i> <i>+AWS D1.1 and D9.1 Certification</i>

Occupation	Median Wage	Annual Openings	% Growth
Welders, Cutters, Solderers, and Brazers	\$41,350	6,171	9%
Welding Soldering and Brazing Machine Setters, Operators and Tenders	\$40,040	280	9%

Industry Based Certifications

+NCCER Core Curriculum

The student is required to show competency not just in welding on various base metals and ranges, but also demonstrates understanding of welding theory and practice.

+AWS D1.1 and D9.1 Certification

If a student obtains the qualification, the document certifies that the student is qualified to produce specific welds in accordance with AWS D1.1 and D9.1.

To earn a CTE endorsement, students must take a minimum of 3 classes for 4 or more credits in the same Program of Study, and must end with one Level 3 or Level 4 CTE course.