



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.

Grade	Required CTE Courses
9	(3915) Introduction to Welding <i>SEM: 2 CR: 1</i>
10	(3911) Welding I <i>SEM: 2 CR: 2</i>
11	(3912) Welding II <i>SEM: 2 CR: 2</i>
12	3913 Practicum in Manufacturing <b>OR</b> 3848 Career Preparation I <i>SEM: 2 CR: 1</i>

Certificates and Degrees Available		
High School	NCCER Welding, Level 1*	
Certificate/License	Certified Welder or Welder Inspector	Machining Level 1 - CNC Milling: Programming Setup & Operations
	Certified Welding Engineering	Certified Environmental, Safety, and Health Trainer
Associate's Degree	Certified Welder or Welder Inspector	Machine Shop Technology/ Assistant
	Operations Management and Supervision	Occupational Safety and Health Technology/ Technician
Bachelor's Degree	Welding Engineering Technology/ Technician	Operations Management and Supervision

\* NCCER Welding, Level 1 certification is provided to students in 11<sup>th</sup> or 12<sup>th</sup> grade. All other certificates and/or degrees are available to students upon graduation from high school.

Career Outlook			
Occupations	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%