

**COURSES**



<b>GRADE 9</b>	NONE Level 1
<b>GRADE 10</b>	Introduction to Welding Level 2
<b>GRADE 11</b>	Welding I (STC DE) Level 3
<b>GRADE 12</b>	Welding II (STC DE) Level 4

**POSTSECONDARY OPTIONS - South Texas College Dual Enrollment Opportunity OR Associate's Degree and/or Certificate at CTE ECHS**

HIGH SCHOOL/INDUSTRY CERTIFICATION	CERTIFICATE/LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE	OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
AWS Certified Welder, D1.1	Certified Welder or Welder Inspector	Welding Technology/Welder	Welding Engineering Technology/Technician		Welders, Cutters, Solderers, and Brazers	\$41,350	6,171	9%
	Machining Level 1 - CNC Milling: Programming Setup & Operations	Machine Shop Technology/Assistant	Biomedical Technology/Technician	Occupational Health and Industrial Hygiene	Welding Soldering and Brazing Machine Setters, Operators and Tenders	\$40,040	280	9%
	Certified Welding Engineering	Operations Management and Supervision						
	Certified Environmental, Safety, and Health Trainer	Occupational Safety and Health Technology/Technician	Environmental Health					
Additional industry based certification information is available from the TEA CTE website.					<b>WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES</b>			
For more information on postsecondary options for this program of study, visit <a href="http://TXCTE.org">TXCTE.org</a> .					Exploration Activities: Participate and compete in SkillsUSA Job shadow a machinist	Work Based Learning Activities: Apprenticeship at a local business or industry American Welding Society		

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. Students 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. The Manufacturing Career Cluster® focuses on planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and



It is the policy of Weslaco ISD not to discriminate on the basis of race, color, national origin, sex or handicap in its vocational programs, services or activities as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; and Section 504 of the Rehabilitation Act of 1973, as amended.

Successful completion of the Manufacturing Technology program of study will fulfill requirements of the Business and Industry Endorsement. Approved Statewide Program of Study - September 2019 - Modified by Weslaco ISD Career & Technical Education



# COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Introduction to Welding	13032250 (1 credit)	None	9-12
Welding I	13032300 (2 credit)	None	10-12
Welding II/Lab	13032400 (2 credits) 13032410 (3 credits)	PREQ: Welding I	11-12
Practicum in Manufacturing	13033000 (2 credits) 13033005 (3 credits) 13033010 (2 credits) 13033015 (3 credits)	None	12
Practicum in Entrepreneurship	TBD	TBD	TBD
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

**FOR ADDITIONAL INFORMATION ON THE MANUFACTURING CAREER CLUSTER, PLEASE CONTACT:**  
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<https://tea.texas.gov/cte>