

Industry Sector: Building Trades and Construction

Pathway: Welding Technology Certificate



California Program of Study

Level	Grade	English Language Arts	Math	Social Studies	Science	Career Technical Education Course	Other Required Courses or Recommended Electives	Sample Occupations relating to this pathway (Including SOC Code)
SECONDARY	9	English	Math	Social Science	Science		Physical Education	Occupations requiring a high school diploma <ul style="list-style-type: none"> ➤ Entry Level Welder ➤ Entry Level Fabricator ➤ First Year Apprentice Occupations requiring some post-secondary <ul style="list-style-type: none"> ➤ Certified Welding Inspector ➤ Project Manager ➤ Certified Welding Supervisor ➤ Certified Welding Educator Occupations requiring a 2 year Degree <ul style="list-style-type: none"> ➤ Robotic Welding ➤ Certified Welding Educator ➤ Welding Technician
	10	English	Math	World History	Science		Physical Education Visual/Performing Arts or Foreign Language	
	11	English		US History		Welding		
	12	English (Recommended)		Civics and American Government		Welding		
(High School courses listed in the light green and yellow areas are the Minimum State High School Graduation requirements)								
	13	As Degree Suggested Course Sequence Years 1 & 2						Occupations requiring a BA/BS Degree <ul style="list-style-type: none"> ➤ Project Manager ➤ Materials Engineering ➤ Welding Engineer ➤ Manufacturing Engineer Industry recognized certifications, licenses, credentials or apprenticeships related to this pathway. <ul style="list-style-type: none"> ➤ American Welding Society (AWS) Certification ➤ Certified Welding Inspector (CWI) ➤ Certified Welding Educator ➤ Certified Welding Supervisor
		Fall Year 1	Spring Year 1	Summer	Fall Year 2	Spring Year 2		
	14	WT 121 Arc/Gas Welding (3)	WT122 MIG Welding (GMAW/FCAW) (3)	WT 123 TIG Welding (GTAW) (3)				
		WT 97 Work Experience in Welding Technology (2) or*	WT 101 Practical Lab (1) or *	WT 101 Practical Lab (1)*				
		WT 97 Work Experience in Welding Technology (2) or*	WT 97 Work Experience 97 (2) or*	WT 97 Work Experience 97 (2)*				
		<ul style="list-style-type: none"> • WT 97 - Work Experience requires 2 units and can be divided over several semesters. The two units do not need to be completed in one semester. • WT 101 – Practical Lab requires 1 units and can be completed any semester 						