



CAREER PLAN OF STUDY: WELDING

CAREER CLUSTER: MANUFACTURING

CAREER PATHWAY: PRODUCTION

SAMPLE OCCUPATIONS: Welder, Fabricator, Finishing Technician, Welder-Fitter, Mig Welder, Robot Operator, Braze Operator, Machine Operator, Spot Welder

**WELDING
PROGRAM OF STUDY**

CTE Courses offered grades 9-12

CERTIFICATION: AWSC American Welding Society Certification (CWE)

HIGH SCHOOL PLAN OF STUDY	GRADE	Suggested Program of Study					OTHER REQUIRED COURSES
		CAREER AND TECHNICAL EDUCATION COURSES	ENGLISH (4 Credits)	MATH (4 Credits)	SCIENCE (3 Lab)	SOCIAL STUDIES (3 Credits)	
	9	IT71 Welding I Basic	EN09 - Freshman English	MA27 - Algebra I	SC09 - Essential Elements of Science	SS22 - World History/ Geography	Practical Art - 1 Credit OR ↓
	10	IT72 Welding II	EN47 - Sophomore English	MA30 - Geometry	SC49 - Biology		Fine Arts 1 credit
	11	**IT73 Welding and Materials Processes	EN48 - Jr. English	MA40 - Algebra II	SC71 - Chemistry	SS35 - American/AZ History	PE - 1 Credit
	12	**IT74 Advanced Welding OR CT88 Welding Cooperative Education OR CT89 Welding Internship	EN49 - Sr. English	MA45-PreCalculus OR MA42 College Algebra/Trigonometry		SS51 - Government and SS77 - Principles and Practices of Economics	World Language - 2 Credits university entrance
LEGEND	CTE Program of Study (Meets practical art requirement)		**Dual Enrollment Option - College credit may be available				
	Refer to each university's website for specific admission requirements						
POST SECONDARY	COMMUNITY COLLEGE		UNIVERSITY			TECHNICAL PROGRAM	
	Mesa Community College http://mesacc.edu/high-school/career-pathways		Arizona State University https://webapp4.asu.edu/programs/t5/undergrad/			Hobart Institute of Welding Technology www.welding.org	
	Eastern Arizona College https://www.eac.edu/Academics/Programs_of_Study/Machineshop/					Arizona Western College www.azwestern.edu	
Go to www.mpsaz.org/cte/programs for more information on this and other CTE Programs of Study.							
CAREER PLANNING LINKS				PROFESSIONAL ORGANIZATION LINKS			
MPS Career and Technical Education - www.mpsaz.org/cte				American Welding Society - www.aws.org			
MPS Career Planning System http://www.mpsaz.kuder.com/				Arizona Tooling and Machining Association - https://www.arizonatooling.org/			
MyMPS - www.mpsaz.org/mymps							