

Welding / Fabrication Pathway

Manufacturing and Product Development



PLEASANT VALLEY HIGH SCHOOL

CTE Welding Pathway Course Sequence



Course Descriptions

Welding Technology 1 (Introductory)

This year-long course covers **safety, tools, metal properties** and their identification. Students learn **arc welding, oxyacetylene gas welding, and machining** through **hands-on experience** with each. Students are introduced to various **careers** and learn, in-depth, the major **metal working processes** used in **industry** today. Students learn how to complete a **job application** and create a quality **resume**.

Advanced Welding (Concentrator)

Year-long course for students who have successfully completed Welding Technology 1. Students will engage in **project-based learning** as they broaden their skills in all positions of welding. Each project will focus on one or more **industry-relevant skill or design technique**, giving students **real-world application**. Students update and enhance personal **resumes** and participate in mock **interviews**. Students can earn **Butte College credit** upon completing this course.

Welding Fabrication (Capstone)

This is a two-hour course for students who have successfully completed Advanced Welding. In this year-long Capstone course, students will build **industry-standard skills** in the areas of **welding, sheet metal, heat treating/hardfacing, and light construction**. Upon completion, students will be **qualified for entry-level jobs in welding, cutting, and metal fabrication**. Students have the opportunity gain **real-world work experience**, being placed in an **internship** with a local welding/fabrication business. This course focuses on **project-based learning** and provides various **work-based learning** opportunities including **industry tours and events and guest speakers**. **Resumes** are updated and **interview skills** polished with additional practice. Students can earn **Butte College credit** upon completing this course.

LOCAL POST-SECONDARY OPTIONS:

Butte College

AS Degree in Welding Technology

Certificate in Welding Technology

Certificate in PowerPathway Gas

Pipeline Welding

CSU, Chico

BS Sustainable Manufacturing

Shasta College

AS Degree in Welding Technology

Certificate in Welding Technology

HIGH-WAGE CAREERS:

- * Sheet Metal Worker
- * Machinist
- * First-Line Supervisor
- * Tool and Die Maker

Contact:

Matt Joiner

mjoiner@chicousd.org

Career and Technical
Student Organization:



SkillsUSA
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