

Welding / Fabrication Pathway

Manufacturing and Product Development



PLEASANT VALLEY HIGH SCHOOL

2022-2023

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
Certified Welder (AWS)*

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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