

WELDING AND MATERIALS JOINING PATHWAY

Program Description

Students trained in the Welding and Materials Joining Pathway will develop an overview of basic design functions, operations and applications. Students successfully completing the program requirements will be able to properly use computer aided equipment, welders, hand tools, power tools, and measuring equipment in a manner consistent with industry standards and requirements. Students will be able to perform welding procedures to include inspecting, diagnosing welds correctly. Students will learn to perform many types of welds, using SMAW, MIG Welding, TIG welding, and computer controlled (CNC) robotic plasma cutters. Our program uses local businesses as an extension of the classroom. The welding industry is rapidly becoming more dependent on the computers and robotic welders. It is highly recommended that students develop the ability to work with computers. Upon completion of the career pathway requirements, students will find that their skills are highly marketable and will have the training to be employable as an entry level position in the welding industry. Further post-secondary education is highly recommended.

For more information go to:

- www.onetonline.org
- www.bls.gov/ooh/
- www.careeronestop.org
- www.virtualjobshadow.com
- www.collegegrad.com
- www.cacareerzone.org

Interview Ready Portfolio

- Job Application
- Resume
- Cover Letter & Thank You Letter
- Letters of Recommendation
- Certificates of Achievement / Awards



CTE PATHWAY CORD REQUIREMENTS

The following courses and program components are required for the pathway graduation cord and require a grade of "C-" or better:

Introductory Course:

- *Welding 1

Concentrator Course:

- *Welding 2

Capstone Course:

- *Welding Technology

*course is offered only at YCHS

Experiential Learning (20 hours):

- Projects require prior approval from instructor and instructor grade upon completion

Interview Ready Portfolio:

- Complete the Interview Ready Portfolio; including a final interview with a business partner

Upon completion of the program requirements, a certificate and graduation cord will be awarded.





CTE Pathways to the Future

WELDING AND MATERIALS JOINING PATHWAY



- Careers in this Pathway include:**
- Robotic Welder Programmer
 - Welding Engineer
 - Manufacturing Welder
 - Construction Welder
 - Welder Inspector
 - CNC Technician

TECHNICAL SKILLS

Welding Technology is an articulated course with Yuba Community College. Students can earn three (3) college units for the class.

REAL WORLD LEARNING

Welding students will use their acquired knowledge and skills in real world simulations and entrepreneurship applications

Welders and Cutters

2016 Employment
29,500

2026 Employment
31,800

Percent Change
(2016-2026)
7.8%

Annual Projected job openings
3,450

Median Hourly Wage
\$20.35

Median Annual Wage
\$42,324.00

Entry Level Education
High School Diploma

Source: EDD/LMID, California Projections 2016-2026



CAREER EXPLORATION

Students will explore career options and post high school requirements needed to transition to employment or additional education and training

STUDENT LEADERSHIP

Leadership training is an integrated component of the Welding Pathway