



MANUFACTURING & PRODUCT DEVELOPMENT

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newsletter

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SPARKS & STRAIGHT ANSWERS

Why did you pick this pathway?



I chose welding because it was the first shop pathway I got for a class. After that, it just stuck with me. The first day of class, I felt comfortable, everyone was talkative, and the class was fun even on the bad days.

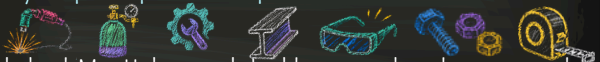
What's your favorite thing you have learned in this pathway?



My favorite thing I learned in this pathway was stick welding. I'd like to say stick welding was my favorite because it's the one I practiced the most and mainly prefer.



Briefly describe your participation in experiences and activities related to your pathway.



For welding, I helped Mr. Hulsey with building a trailer, demonstrated to the 8th graders at WIS, and participated in a Tiger Romp competition.

What's your favorite memory of being part of the pathway?



My favorite memory of being a part of this pathway is my classmates and what I learned. Both times I've had Hulsey for class, I had fun classes and great classmates.



Any advice to students interested in this pathway?



Just try it. A lot of students even try to weld after Hulsey teaches them. Most students choose the class because Hulsey is a chill teacher or to get out of boring classes, but I think if more students were to try it, they may find something they enjoy and find interesting in a pathway.

Do your future goals include what you learned in your pathway?

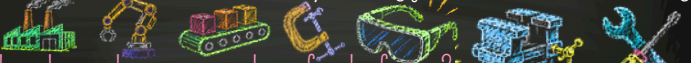


Yes, my future goals do include what I learned from welding. I enjoy welding a lot as a pathway and hope one day to become a welder, maybe even become a welding teacher.



What are your plans after high school?

My plans are to go to College of the Sequoias for welding, get more certifications, and then find a steady welding job that I can make a living with.

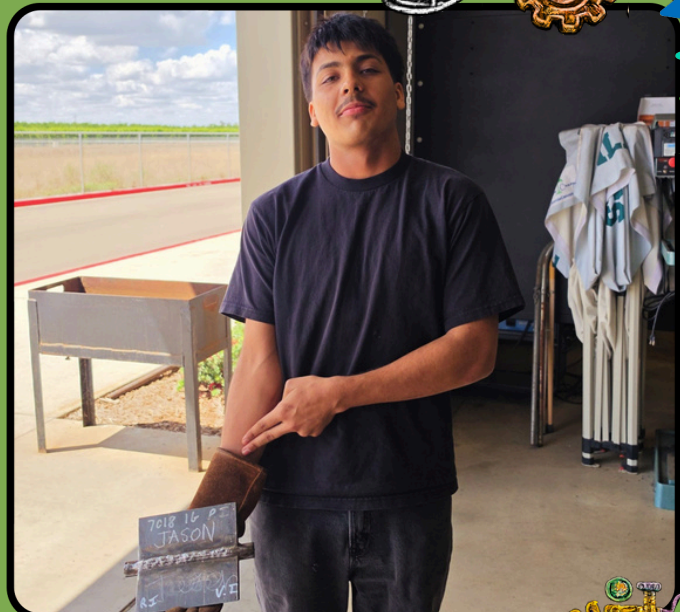


How has this pathway prepared you for the future?

This pathway has prepared me for the future because of what I learned from it and the many different experiences I went through. I got to see what being a true welder is all about and the conditions I would be working in.



DHS_WELDING



♥ Jason Gomez



PATHWAY AT A GLANCE



The Manufacturing and Product Development sector provides knowledge in the manufacturing processes and systems, including graphic design production, machine tooling and forming, welding and materials joining, and product innovation and design. The Welding and Materials Joining pathway at Dinuba High School provides students with an understanding of manufacturing processes and systems common to careers in welding and related industries. This pathway is designed around the American Welding Society (AWS) guidelines for the Entry Level Welder. Students will have the opportunity to learn about the interpretation and layout of welded and assembled-part prints, cutting, mechanical bonding, joining, cohesive bonding, adhesive bonding, and mechanical fastening. The knowledge and skills that are attained in this pathway are designed to prepare students for entry to a career, postsecondary education, or advanced technical training.

PATHWAYS AT DHS - Welding & Material Joining



COLLEGE KNOWLEDGE

EXPLORE COLLEGE PROGRAMS

Students who may be interested in pursuing a career in welding are encouraged to explore the many opportunities available at Reedley College, which serves over 8,000 students and offers a wide range of certificate of achievement and associate degree options within their Manufacturing, Machine Tool Technology, and Welding programs. Nearby colleges such as Fresno City College, Clovis Community College, and College of the Sequoias also provide strong hands-on training programs that prepare students for careers in the skilled trades. Many of these programs can be completed in as little as 1-2 years, allowing students to quickly enter the workforce with valuable technical skills.

Students who are more interested in the engineering side of product development should take a look at the Industrial & Manufacturing Engineering program at California Polytechnic State University, San Luis Obispo, as well as programs offered at Fresno State, a leading transfer destination for Central Valley students. These universities offer several undergraduate and graduate programs depending on students' interests and provide strong pathways into careers in engineering and advanced manufacturing.

Across California, the manufacturing industry employs over 1.2 million workers, making it one of the largest sectors in the state. In the Central Valley, careers in welding and skilled trades continue to grow due to demand in agriculture, construction, and industrial production. Welders in California earn an average of approximately \$55,000-\$75,000 per year, with higher wages available for advanced skills and certifications.



Click on the shield to take a virtual tour of Cal Poly's College of Engineering

Did you know?

- ✓ The manufacturing industry employs over 1.2 million workers in California, making it one of the largest sectors in the state
- 🔧 In the Central Valley, skilled trades jobs (including welding and machinery repair) continue to grow due to agriculture and construction demand
- 💰 The average wage for welders in California is around \$55,000-\$75,000, with experienced workers earning even more
- 🏗️ California is projected to see thousands of new construction and infrastructure jobs over the next decade, increasing demand for welders
- 🚄 The California High-Speed Rail project alone is expected to create thousands of skilled trade jobs, including welding and fabrication
- ✈️ In Los Angeles County, manufacturing employs over 350,000 workers, including jobs in aerospace, metal fabrication, and production
- ⚙️ The aerospace industry in Southern California is one of the largest in the nation, relying heavily on welding and manufacturing skills
- 🕒 Many welding programs at community colleges can be completed in 1-2 years, leading directly to employment

EDUCATION LEVEL & RELATED OCCUPATIONS

- Entry Level Careers (High School Diploma)**
- Furniture Finisher – \$30,000 – \$55,000 Stable Demand
 - Electronics Assembler – \$35,000 – \$60,000 Increasing Demand
 - Production Woodworker – \$35,000 – \$60,000 Stable Demand
 - Plumber (Apprentice/Entry) – \$40,000 – \$70,000 Increasing Demand
 - Recycling Service Worker – \$35,000 – \$60,000 Increasing Demand
 - Upholsterer – \$30,000 – \$55,000 Stable Demand
 - Automobile Assembler – \$35,000 – \$65,000 Stable Demand
- Technical Level Careers (Certificate / Associate Degree)**
- Electrician – \$55,000 – \$110,000 ★ High Demand
 - Electrical Engineering Technician – \$60,000 – \$100,000 Stable Demand
 - Steamfitter / Pipefitter – \$55,000 – \$110,000 Increasing Demand
 - Pipefitter – \$55,000 – \$110,000 ★ High Demand
 - Industrial Machinery Mechanic – \$55,000 – \$95,000 ★ High Demand
 - Welder – \$40,000 – \$75,000+ ★ High Demand
 - Sheet Metal Worker – \$50,000 – \$90,000 Stable Demand
- Professional Level Careers (Bachelor's Degree)**
- Manufacturing Manager – \$75,000 – \$140,000 ★ High Demand
 - Biomedical Equipment Technician – \$60,000 – \$95,000 High Demand
 - Quality Control Engineer – \$70,000 – \$120,000 ★ High Demand
 - Logistics Specialist – \$55,000 – \$95,000 ★ High Demand
 - Electronics Engineering Technician – \$60,000 – \$100,000 Stable Demand
 - Quality Assurance Director – \$90,000 – \$160,000 ★ High Demand

MANUFACTURING AND PRODUCT DEVELOPMENT

CAREER CLUSTER:

Manufacturing & Product Development

Jobs in this cluster plan and figure out the best way to make these things. They decide which materials (like wood, metal, or plastic) to use and how to turn these materials into cool products.

COLLEGE & CAREER RESOURCES

College Majors:

- Industrial Engineering
- Welding Technology
- Product Engineering



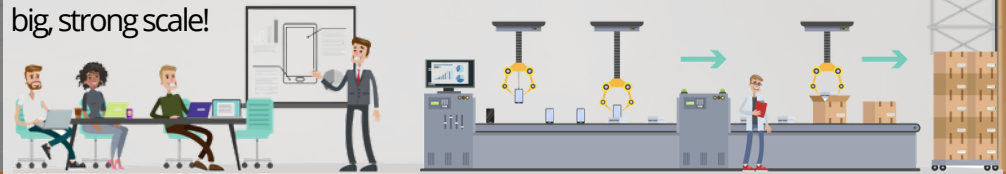
College & Universities:

- Fresno State
 - Industrial Technology
- Cal Poly
 - Manufactured Engineering
- Reedley College
 - Welding Technology
- Fresno City College
 - Computer Aided Manufacturing



In this pathway, people plan, manage, and make cool stuff by transforming materials into products. Whether it's turning wood into furniture, metal into cars, or plastic into toys, manufacturing experts are the magic behind it all. They also help with important tasks like figuring out the best ways to make things efficiently, keeping everything running smoothly, and making sure everything is safe and sound.

At Dinuba High School you can study and take classes in the Welding & Materials Joining Pathway and learn how to weld. Students get to wear special gear like helmets and gloves to protect themselves, and they learn all about different metals and how to join them together. It's a bit like doing a craft project, but on a big, strong scale!



ZOOM INTO CAREERS

K-6

A DAY IN THE LIFE OF AN ASSEMBLER

K-6

DAY IN THE LIFE OF A QUALITY INSPECTOR

K-6

CAREERS AT THE Ford ASSEMBLY PLANT

K-6

MEET A FOOD QUALITY ASSURANCE MANAGER

K-6

K-6

MEET A WELDER

K-6

MEET A LOGISTICS COORDINATOR

K-6

MEET AN APPRENTICE WELDER

K-6

DAY IN THE LIFE OF A LOGISTICS MANAGER



CLICK HERE

The Making of A Young Entrepreneur: Gabrielle Jordan Williams Kids Can Too | Noah Diguangco

epic! SCHOOL Books to READ!

Sign-in to Clever & click on the book to read!

K-2

HENRY FORD

K-2

The BOY WHO INVENTED the POPSICLE

K-2

Thomas Edison

3-6

LEGO MANUFACTURERS

3-6

A Picture Book of Benjamin Franklin

3-6

INVENTIONS AND INVENTORS

The mission of the College & Career Department is to empower all students with educational and work-based experiences to ensure that they are college, career, & life ready.

For more information visit our [website!](#)