MANUFACTURING & PRODUCT DEVELOPMENT

nevesletter

MAY 2024

STUDENT QUESTION & ANSWERS

Why did you pick this pathway?

I love welding, I love everything about it. I love how when you start welding, everything around you disappears and it's just you.

Favorite thing you learned in your pathway?

The thing I enjoy most that I've learned in this pathway is stick welding.

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

I've gone to competitions for welding and I was also in charge of a project where we built four ladder racks for the Dinuba Fire Department. I will soon have the opportunity to get certified in stick welding through Reedley College.

Favorite memory of being a part of the pathway.

My favorite memory has to be the friendships l've made. Thanks to this class, the friends l've made are now some of the best friends I have to this day.

Advice to students interested in your pathway.

Take it, if you're the type of person who loves to get their hands dirty and love to work in a group take this class.

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

Yes, because I took this class, it really opened my eyes and showed me that welding is what I want to do for the rest of my life. So, I joined the Navy to make sure

I can keep welding in the future.

Plans after high school:

After high school, on August 27, I'm heading off to boot camp for the Navy to become a Navy diver.

CONTACT US COLLEGEANDCAREERDINUBA.KI2.CA.US



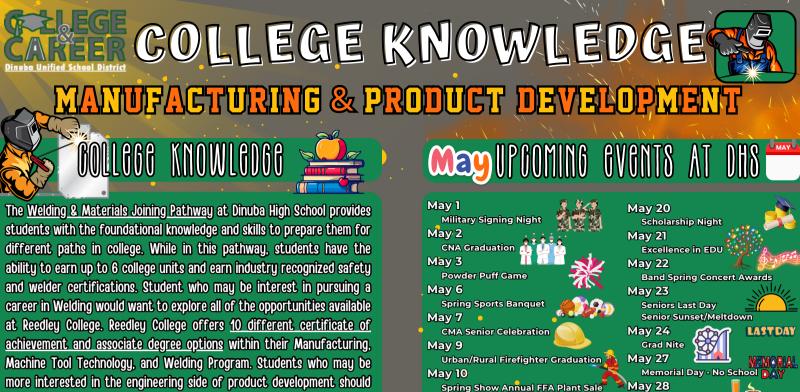
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The Manufacturing and Product Development sector provides knowledge in the manufacturing processes and sustems, including graphic design

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.

Welding & Material Joining

PATHWAYS AT DHS



May 11

Annual FFA Plant Sale

more interested in the engineering side of product development should take a look at the Industrial & Manufacturing Engineering program at California Polytechnic State University in San Luis Obispo. They offer several different undergraduate and graduate programs depending on the interest of the student. In 2021, the top programs included Business Administration, leading with 1.993 completions, followed by Truck and Bus Driver/Commercial Vehicle Operator and Instructor with 851 graduates. The sciences made a strong showing with 370 students completing programs in Biological and Physical Sciences. Technical skills are also on the rise, with 267 students mastering HVAC and Refrigeration Maintenance and 262 becoming skilled Welders. CSU Fresno stands at the forefront of our top schools with 1,376 graduates, while Advanced Career Institute and Fresno City College boasted 1,022 and 654 completions, respectively. Embark on your future today-your journey begins here!



Use the QR code to take a virtual tour of Cal Poly's College of Engineering



May 13 **May 29 College Signing Night** Graduation Practice #1 May 14 8th Grade Promotion Ceremony Student Council Pool Party SV/RR/ Adult Graduation **Skills Banquet** May 30 May 16 Minimum Day FFA Awards Banque Graduation Practice #2 1010/06/06 May 17 DHS Graduation Ceremony Wildland Firefighter Graduation May 31 May 19 Minimum Day Year End Video Baccalaureate

Senior Break

8th Grade Promotion Celebration

Grad Walk

EDUCATION LEVEL & RELATED OCCUPATIONS

Entry Level Careers (High School Diploma)

- Furniture Finisher 📇 \$26,200 \$48,730 😒 Declining Demand 🎍
- Electronics Assembler 📇 \$28,820 \$57,240 짇 Increasing Demand
- Production Woodworker 🚔 \$23,430-\$47,330 😔 Stable Demand Plumber 😤 \$36,700 - \$99,920 🕗 Increasing Demand
- Recycling Service Worker 🖀 \$25,200-\$50,500 🕗 Increasing De
- Upholsterer 🚔 \$23,700-\$52,190 😔 Stable Demand
- Automobile Assembler 🖀 \$27,000-\$63,190 😏 Stable Demand

Technical Level Careers (Certificate and/ or Associate Degree)

- Electrician 🖀 \$35,000-\$130,000 📀 High Demand
- Electrical Engineering Tech 🖀 \$37,020-\$99,800 😔 Stable Demand
- Steamfitter 🚖 \$36,700 \$99,920 횓 Increasing Demand
- Pipefitter 🖀 \$36,700 \$99,920 🕗 Increasing Demand Industrial Machinist Mechanic 🗇 \$37,370-\$79,270
- Welder 🖆 \$31,350-\$63,660 🕠 High Demand Sheet Metal Worker 🖀 \$34,450-\$95,010 😔 Stable Demand
- Professional Level Careers (Bachelor's Degree)
- Manufacturing Manager 🖀 \$64,150-\$170,470 😔 Stable Demand
- Biomedical Equipment Technician 🖀 \$65,460-\$83,690 🕜 High Demand Quality Control Engineer 🖀 \$77,570-\$108,000 😔 Stable Demand
- Logistics Specialist 🖀 \$45,160-\$122,390 🕦 High Demand
- Electronics Engineering Tech 🗇 \$39,840-\$99,210 📀 Stable Demand
- Quality Assurance Director 😤 \$90,000-\$150,000 😔 Stable Demand 🖵

Tulare | Kings | Fresno Counties Labor Markets



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 ()
- <u>Cal Poly</u>
 - Manufactured Engineering

CLICK HERE

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

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3-6

<u>Reedley College</u>

Kids Can Too | Noah Diguangco

3-6

- Fresno City College
 - <u>Welding Technology</u>

The Making of A Young Entrepreneur: Gabrielle Jordan Williams

BOY WHO

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<u>Computer Aided</u>
<u>Manufacturing</u> → 米

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 <u>Welding & Materials</u> Joining <u>Pathway</u> 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!



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LOGISTICS



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