



SECTOR SPOTLIGHT: TRANSPORTATION (SYSTEM DIAGNOSTIC & REPAIR)

JANUARY 2024

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STUDENT QUESTIONS & ANSWERS

Why did you pick this pathway?

I chose the Automotive pathway because it's something I enjoy doing.

Favorite thing you learned in your pathway?

My favorite thing in this pathway is learning how to work on and maintain vehicles.

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

Throughout high school, I have worked on cars. This year, as a senior, I disassembled and reassembled a Chevy 350 motor, installing new cylinder heads on it.

Favorite memory of being a part of the pathway.

My favorite memory of the Auto Pathway is working on motors with my friends in class.

Advice to students interested in your pathway.

Consider joining the Auto Pathway, even if it's just for one semester. Hopefully, you will enjoy it as much as I have.

Future goals include what you learned in your pathway?

Yes, they do. I plan to work in the auto industry.

Plans after high school:

After high school, my plan is to attend community college and major in Automotive Technology. Following my studies, I intend to work in an auto shop.



TYLOR GIBSON
SENIOR - AUTO PATHWAY

PATHWAYS AT A GLANCE

The Transportation (System Diagnostic & Repair) sector places a strong emphasis on providing students with real-world, job-related experiences. Dinuba High School offers two distinct pathways within the sector. These pathways are designed to prepare students for both college and employment in the transportation industry, encompassing a wide range of sectors such as motor vehicles, small-engine and specialty equipment.

The **Automotive** pathway is designed to establish a foundation for students interested in entering the auto transportation industry. The courses within this program delve into the design, construction, and mechanical functions of contemporary vehicles, covering topics such as engine repair, suspension and steering, brakes, and electrical/electronic systems. Furthermore, the curriculum includes instruction on the safety protocols and proper usage of automotive tools and equipment.

Aviation Maintenance Tech/Flight Science pathway is designed to establish a foundation for students interested in entering the aviation transportation industry. The courses are structured to impart the theory of operating aircraft airframes, power plants, avionics systems, along with associated maintenance and repair practices. Additionally, the program includes a basic introduction to flight school, where students will explore the fundamentals of flight training ground school through the use of flight simulators. Coursework for this pathway is taken at Reedley College.

These pathways encompass not only academic and technical preparation but also emphasize career awareness, career exploration, and skill development. Students will receive not just classroom learning but also opportunities for hands-on experience, project-based and work-based instruction, as well as leadership development.



PATHWAYS AT DHS

- Automotive
- Aviation Maintenance Tech/Flight Science



TRANSPORTATION

SYSTEM DIAGNOSTIC & REPAIR



COLLEGE KNOWLEDGE

DINUBA HIGH SCHOOL PROVIDES TWO DISTINCT PATHWAYS WITHIN THE SYSTEMS DIAGNOSTIC AND REPAIR SECTOR: AUTOMOTIVE AND AVIATION MAINTENANCE. EACH PATHWAY EQUIPS STUDENTS WITH FOUNDATIONAL KNOWLEDGE AND SKILLS, PREPARING THEM FOR REAL-WORLD APPLICATIONS OR VARIOUS COLLEGIATE PURSUITS.

ACCORDING TO THE WORKFORCE INVESTMENT BOARD OF TULARE COUNTY, IN 2023, THERE WERE A TOTAL OF 89,856 JOBS IN THE FRESNO, TULARE, AND KINGS COUNTY REGION, AND THE GREATEST PERCENT OF THOSE JOBS WERE SHARED BY THE GENERAL FREIGHT TRUCKING AND WAREHOUSING & STORAGE INDUSTRIES. TOP PROGRAMS IN CENTRAL CALIFORNIA INCLUDE REEDLEY COLLEGE ([AUTO](#) & [AVIATION](#)), [CLOVIS COMMUNITY COLLEGE](#), [FRESNO STATE](#) & [UNIVERSAL TECHNICAL INSTITUTE](#).

CLICK ON THE LINKS ABOVE OR USE THE QR CODES BELOW TO EXPLORE THE PROGRAMS AT EACH COLLEGE AND UNIVERSITY.



EVENTS HAPPENING THIS MONTH AT DHS

- January 24**
FAFSA Workshop
- January 22-26**
Basketball Homecoming Week
- January 30**
Requesting Reedley College Transcripts Workshop
- February 27**
FAFSA Workshop

EDUCATION LEVEL & RELATED OCCUPATIONS

Entry Level Careers (High School Diploma)

- Dispatcher 💰 \$22,820-\$45,450 📈 Increasing Demand
- Automotive Painter 💰 \$27,320-\$70,840 ➡ Stable Demand
- Auto Body Repair 💰 \$29,660-\$76,220 ➡ Stable Demand
- Train Operator 💰 \$44,260-\$84,120 ➡ Stable Demand
- Truck Driver 💰 \$30,710-\$72,730 📈 High Demand
- Small Engine Mechanic 💰 \$28,120-\$58,100 ➡ Stable Demand
- Shipping & Receiving Clerk 💰 \$27,830-\$50,520 ➡ Stable Demand
- Ships Crew 💰 \$24,000-\$145,000 📉 Declining Demand

Technical Level Careers (Certificate and/or Associate Degree)

- Logistics Specialist 💰 \$45,160-\$122,390 📈 High Demand
- Drone Pilot 💰 \$40,000-\$100,000 📈 Increasing Demand
- Transportation Inspector 💰 \$37,030-\$124,200 📉 Declining Demand
- Pilot 💰 \$50,080-\$60,000 📈 Increasing Demand
- Aircraft Mechanic 💰 \$38,270-\$98,590 📈 Increasing Demand
- Marine Technician 💰 \$30,000-\$65,000 📈 Increasing Demand
- Avionics Technician 💰 \$38,700-\$100,860 ➡ Stable Demand
- Race Car Technician 💰 \$25,000-\$150,000 ➡ Stable Demand

Professional Level Careers (Bachelor's Degree)

- Helicopter Pilot 💰 \$45,000-\$130,000 📈 Increasing Demand
- Transportation Planner 💰 \$45,000-\$90,000 ➡ Stable Demand
- Operations Research Analyst 💰 \$48,690-\$160,850 📈 High Demand

TRANSPORTATION

DISTRIBUTION & LOGISTICS

Career Cluster:

Transportation, Distribution & Logistics

Jobs in this cluster focus on moving people and products by road, air, rail and water.

College & Career Resources

College Majors:

- Flight Science
- Automotive Technology
- Industrial Maintenance

College & Universities:

- [Fresno City College](#)
 - [Automotive Technology](#)
 - [Industrial Maintenance](#)
- [College of the Sequoias](#)
 - [Automotive Technology](#)
 - [Industrial Maintenance](#)
- [Reedley College](#)
 - [Flight Science](#)
 - [Automotive Technology](#)
 - [Aviation Maintenance](#)

[CLICK HERE](#)

TRANSPORTATION

This industry gives hands-on experiences in areas like aviation, service and repair. Careers in this industry include: harbors, ports, warehousing, airplanes, trains, vehicles, and specialty equipment.

At Dinuba High School you can study and take classes in automotive and aviation maintenance/flight science in our [Automotive pathway](#) and [Aviation Maintenance/Flight Science pathway](#).



ZOOM INTO CAREERS

TED TALKS

Why your daughter should learn how to fly an airplane
A plane you can drive [CLICK HERE](#)

epic! SCHOOL

Books to READ!

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



K-2



K-2



K-2



3-6



3-6



3-6



K-2



3-6



K-2

3-6

DAY IN THE LIFE OF A RACE CAR MECHANIC



3-6



3-6



3-6



K-6

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!](#)