

Purpose and Learning Objectives The purpose of this activity is for students explore careers in the transportation sector, identifying those they may be interested in. Learning objectives for this activity are:

- Explore careers in transportation
- Explore personal interests and identify careers that may fit those interests, including those that may be in the transportation

Estimated Time for Completion .5 – 1.0 hours

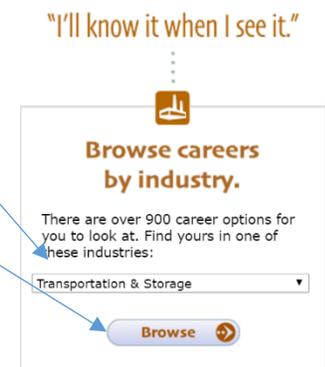
Resources/Supplies Required

- Computer with internet access and connection to a printer (optional students may want to print career information)
- Paper and pens/pencils for students to write

Instructions It is recommended that students complete the Transportation Exploration: The U.S. Transportation System activity ([Transportation Exploration Activity](#) on the youth site) before conducting this activity. If they have completed this activity, refer them back to their video notes about the jobs/careers they saw and heard that make up the U.S. transportation system.

Provide the following to students as an introduction to this activity: *There are numerous career opportunities in transportation ranging from those that plan and design transportation systems and vehicles....to those that build the infrastructure and manufacture vehicles, to those that keep the system and vehicles in good working order. Careers in transportation provide good pay and advancement opportunities, are here to stay, and are becoming more "high-tech" as transportation systems and vehicles become "smarter and smarter". These careers also provide an rewarding opportunity to be part of building your community's future. Now, let's explore some careers in transportation and see if there are any that may be of interest to you.*

1. Using the [Transportation Youth Academy](#) website, instruct students to click on the [Career Exploration Activity](#)
2. Instruct students to click on the [Career Opportunities in the Transportation Industry Sector](#) link. Ask students to review the transportation brochure (they may also save or print the brochure for later use). On the second page of the brochure students will see several careers that exist in transportation. For students in California, or as an example of how transportation careers are organized within a state, ask students to click on the [California Transportation Careers](#) link to see a small sample of the many great employment opportunities available.
3. Next, instruct students to go online to MyNextMove: <http://www.mynextmove.org/>
4. In the Browse careers by industry, ask students to click on the drop down menu box and select [Transportation and Storage](#) from the list. Then click the [browse](#) button.
5. To the right is a list of the most common careers in this industry. To the left are icons that show if the careers currently have a [Bright Outlook](#) (meaning there are many job opportunities), are green (meaning there are opportunities in these careers to work on sustainability/environmentally friendly activities), and can be learned through registered apprenticeships (which includes being an employee and earning pay while learning the career at the same time).
6. Ask students to find a career from the list on the right that might interest them or that they



would like to discover more about. Or maybe it's a career they think matches a job they saw in the U.S. transportation system video. Remind students to scroll down the screen to see all of the careers. Ask student to choose at least one career and click on that career title.

MOST PEOPLE in these careers work in transportation and storage:

99% of all flight attendants work in transportation and storage.

Where do they work?	Bright Outlook	green	REGISTERED APPRENTICESHIP
Aircraft Cargo Handling Supervisors	•	•	•
Aircraft Mechanics & Service Technicians	•	•	•
Airfield Operations Specialists	•	•	•
Airline Pilots, Copilots, & Flight Engineers	•	•	•

- Inform students that this new page shows them what a person in this career does and the knowledge, skills, and abilities they typically need to work in this career. Also, as they scroll down, they will see personality traits that are suited to this type of career.
 - Given the traits that are listed here – ask them if they think this career matches their personality/interests?

Aircraft Mechanics & Service Technicians

Also called: Aircraft Mechanic, Aircraft Technician, Airframe and Powerplant Mechanic (A and P Mechanic), Aviation Mechanic

What they do:

Diagnose, adjust, repair, or overhaul aircraft engines and assemblies, such as hydraulic and pneumatic systems. Includes helicopter and aircraft engine specialists.

On the job, you would:

- Examine and inspect aircraft components, including landing gear, hydraulic systems, and deicers to locate cracks, breaks, leaks, or other problems.
- Conduct routine and special inspections as required by regulations.
- Inspect completed work to certify that maintenance meets standards and that aircraft are ready for operation.

<h3>KNOWLEDGE</h3> <p>Engineering and Technology</p> <ul style="list-style-type: none"> mechanical product and service development <p>Arts and Humanities</p> <ul style="list-style-type: none"> English language <p>Business</p> <ul style="list-style-type: none"> customer service 	<h3>SKILLS</h3> <p>Basic Skills</p> <ul style="list-style-type: none"> thinking about the pros and cons of different ways to solve a problem reading work related information <p>Problem Solving</p> <ul style="list-style-type: none"> noticing a problem and figuring out the best way to solve it <p>Technical</p>	<h3>ABILITIES</h3> <p>Hand and Finger Use</p> <ul style="list-style-type: none"> put together small parts with your fingers hold or move items with your hands <p>Verbal</p> <ul style="list-style-type: none"> read and understand what is written communicate by speaking <p>Ideas and Logic</p>
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- Let students know they will also see software technology that is used on the job. And, further down the page they will find the typical level of education required, the job outlook (forecast of jobs available), and the average salary in the United States.
 - Ask students to find out what the career outlook is like in their state. Instruct them to click on the [Check out my state](#) button.

JOB OUTLOOK

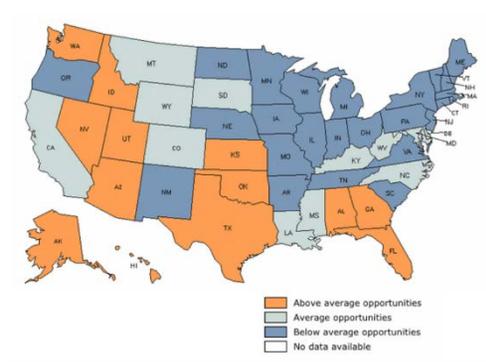
Below Average

New job opportunities are **less likely** in the future.

SALARY:
\$58,370
 per year, on average

Next, a map of the U.S. will appear. Ask students if the career outlook in their state is above, below, or at the national average?

Orange states have an **above average** share of this career in their workforce. **Blue** states have a **below average** share of this career in their workforce. No information is available on this career in states that are not colored.



- Discuss with students how this is just the tip of the iceberg. Ask them to click on the employment and wages link to the right of the map. This takes students to a detailed profile of the career, including job forecasts, wages, and which states have the largest number of jobs for this career – ask them to refer to the map of the U.S. further down the page. If their state is one of those states, they will be able to click on the state name to go to another page with detailed information about career and employment in their state.

For detailed state-by-state info, see [employment and wages](#) from the Bureau of Labor-Statistics.

States with the highest employment level in this occupation:

State	Employment (1)	Employment per thousand jobs	Location quotient (9)	Hourly mean wage	Annual mean wage (2)
Texas	16,540	1.43	1.59	\$28.03	\$58,300
California	13,330	0.86	0.96	\$30.85	\$64,170
Florida	12,010	1.52	1.68	\$26.81	\$55,770
Georgia	8,470	2.06	2.29	\$31.14	\$64,780
Arizona	4,590	1.77	1.97	\$28.24	\$58,740

- This takes students to a detailed profile of the career, including job forecasts, wages, in their state. Ask students to scroll down the list of occupations and click on Transportation

and Material Moving Occupations, a detailed list of occupations will appear including the number of jobs; wages; and much, much more.

- 49-0000 [Installation, Maintenance, and Repair Occupations](#)
- 51-0000 [Production Occupations](#)
- 53-0000 [Transportation and Material Moving Occupations](#)

- Reinforce with students that what this activity reveals, there are many, many opportunities to start and grow/advance a career in transportation.

9. Keep exploring careers. You can continue click on links you see on this page, click on the go back button at the top, left hand side of the screen, or start again at step #2.

