

Your Guide To Careers In

# Transportation, Distribution & Logistics



The Texas airport system is the largest in the nation.



## Move Ahead!

Texas has approximately 12,000 miles of mainline railroad track, the most of any state in the U.S.



Transportation represents nearly 17 percent of the total Texas gross product.

# Programs of Study



## Transportation Operations (i.e. Commercial Pilot)

These are people that drive or pilot the vehicles that transport people and freight. Equally important to this pathway are the support people who insure that any cargo transport is safe, secure, and on time.

## Logistics Planning and Management Services (i.e. Logistician)

Careers in this pathway involve the planning, management and control of the physical distribution of materials, products, and people. Often, more than one mode of transportation is used as distribution efforts can be complex, even national or global.

## Warehousing and Distribution Center Operations (i.e. Industrial Engineer)

Careers in this pathway focus on the operation of transportation and distribution facilities including ports, terminals, warehouses, and other types of facilities.

## Facility and Mobile Equipment Maintenance (i.e. Automotive Service Technician)

Careers in this pathway include the maintenance, repair, and servicing of vehicles and transportation facilities, as well as the refueling of mobile equipment.

## Transportation Systems/Infrastructure Planning, Mgmt. and Regulation (i.e. Urban and Regional Planner)

Workers in this pathway deal with all aspects of the design and operation of our public transportation systems – road, air, sea, and rail. These functions are primarily the responsibility of people who are employed by federal, state and local transportation agencies.

## Health, Safety, and Environmental Management (i.e. Safety Engineer)

Careers in this pathway involve assessing and managing risks associated with safety and environmental issues. The well-being of people and our environment is more important and challenging today than ever before in history.

## Sales and Service (i.e. Sales and Service Manager)

Careers in this pathway involve the marketing and selling of transportation services to new customers as well as the management of existing customer relationships and customer service.

# Career Options

Occupation	Education
Airline Pilot, Co-Pilot, and Flight Engineer	Bachelor's Degree
Aerospace Engineering and Operations Technician	Associate's Degree
Commercial Pilot	Postsecondary Award
Aircraft Mechanic and Service Technician	Postsecondary Award
Bus and Truck Mechanics and Diesel Engine Specialist	Postsecondary Award
Automotive Service Technician	Postsecondary Award
Postmaster and Mail Superintendent	Work Experience in a Related Occupation
Captain, Mate, and Pilot of Water Vessels	Work Experience in a Related Occupation
First-Line Supervisor of Transportation Machine and Vehicle Operators	Work Experience in a Related Occupation
Flight Attendant	Long-Term On-The-Job Training
Automotive Glass Installer and Repairer	Long-Term On-The-Job Training
Railcar Repairer	Long-Term On-The-Job Training
Recreational Vehicle Service Technician	Long-Term On-The-Job Training
Motorboat Operator	Moderate-Term On-The-Job Training
Cargo and Freight Agent	Moderate-Term On-The-Job Training
Dispatcher, except Police, Fire, and Ambulance	Moderate-Term On-The-Job Training
Truck Driver, Heavy and Tractor-Trailer	Moderate-Term On-The-Job Training
Tank Car, Truck, and Ship Loader	Moderate-Term On-The-Job Training
Outdoor Power Equipment and Miscellaneous Small Engine Mechanic	Moderate-Term On-The-Job Training
Taxi Driver and Chauffeur	Short-Term On-The-Job Training
Traffic Technician	Short-Term On-The-Job Training
Postal Service Mail Carrier	Short-Term On-The-Job Training
Bus Driver, School	Short-Term On-The-Job Training
Refuse and Recyclable Material Collector	Short-Term On-The-Job Training

# Sample Graduation Plan (26 Credit RHSP)

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
English I	English II	English III	English IV
Algebra I	Geometry	Algebra II	4th Year of Math
Biology	Chemistry	Physics	4th Year of Science
World Geography	World History	US History	Government/Economics

The following courses must be included in the personal graduation plan at a time deemed appropriate by the student, parent, and counselor. Please refer to the Katy I.S.D. Planning Guide for additional information.

**Communication Applications (1/2 Credit)**

**Fine Arts (1 Credit)**

**P.E. (1 Credit)**

**Language Other Than English (2 Credits)**

**Health (1/2 Credit)**

**Electives (5 Credits - May Include CTE Elective Options\*)**

\*CTE Elective Options (Note: Course Selection and Sequence Based On Individual Student Interests, Abilities, and Course Availability) See below:

Program of Study	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
<b>Transportation Operations</b>	<ul style="list-style-type: none"> <li>Business Information Management I</li> </ul>	<ul style="list-style-type: none"> <li>Introduction to Engineering Design</li> </ul>	<ul style="list-style-type: none"> <li>Automotive Technology I or Collision Repair &amp; Refinishing</li> </ul>	<ul style="list-style-type: none"> <li>Advanced Automotive Technology or Advanced Collision Repair &amp; Refinishing</li> </ul>
<b>Logistics Planning and Management Services</b>	<ul style="list-style-type: none"> <li>Business Information Management I</li> </ul>	<ul style="list-style-type: none"> <li>Introduction to Engineering Design</li> </ul>	<ul style="list-style-type: none"> <li>Automotive Technology I or Collision Repair &amp; Refinishing</li> </ul>	<ul style="list-style-type: none"> <li>Advanced Automotive Technology or Advanced Collision Repair &amp; Refinishing</li> </ul>
<b>Warehousing and Distribution Center Operations</b>	<ul style="list-style-type: none"> <li>Business Information Management I</li> </ul>	<ul style="list-style-type: none"> <li>Introduction to Engineering Design</li> </ul>	<ul style="list-style-type: none"> <li>Automotive Technology I or Collision Repair &amp; Refinishing</li> </ul>	<ul style="list-style-type: none"> <li>Advanced Automotive Technology or Advanced Collision Repair &amp; Refinishing</li> </ul>
<b>Facility and Mobile Equipment</b>	<ul style="list-style-type: none"> <li>Business Information Management I</li> </ul>	<ul style="list-style-type: none"> <li>Introduction to Engineering Design</li> </ul>	<ul style="list-style-type: none"> <li>Automotive Technology I or Collision Repair &amp; Refinishing</li> </ul>	<ul style="list-style-type: none"> <li>Advanced Automotive Technology or Advanced Collision Repair &amp; Refinishing</li> </ul>
<b>Transportation Systems/Infrastructure Planning, Management and Regulations</b>	<ul style="list-style-type: none"> <li>Business Information Management I</li> </ul>	<ul style="list-style-type: none"> <li>Introduction to Engineering Design</li> </ul>	<ul style="list-style-type: none"> <li>Automotive Technology I or Collision Repair &amp; Refinishing</li> </ul>	<ul style="list-style-type: none"> <li>Advanced Automotive Technology or Advanced Collision Repair &amp; Refinishing</li> </ul>
<b>Health, Safety &amp; Environmental Management</b>	<ul style="list-style-type: none"> <li>Business Information Management I</li> </ul>	<ul style="list-style-type: none"> <li>Principles of Health Science</li> </ul>	<ul style="list-style-type: none"> <li>Introduction to Engineering Design</li> </ul>	<ul style="list-style-type: none"> <li>Automotive Technology I or Collision Repair &amp; Refinishing</li> </ul>
<b>Sales and Service</b>	<ul style="list-style-type: none"> <li>Business Information Management I</li> </ul>	<ul style="list-style-type: none"> <li>Introduction to Engineering Design</li> </ul>	<ul style="list-style-type: none"> <li>Automotive Technology I or Collision Repair &amp; Refinishing</li> </ul>	<ul style="list-style-type: none"> <li>Advanced Automotive Technology or Advanced Collision Repair &amp; Refinishing</li> </ul>



## Tech Prep Six-Year Plan

Tech Prep Six-Year Plan in partnership with Houston Community College is available in Automotive Technology. Please consult with teacher and/or counselor for additional information.



## SkillsUSA

SkillsUSA is a national organization for students exploring trade, industrial, technical, and service-related careers. This organization promotes superior work skills, life-long education, leadership, teamwork, citizenship and community service among its student members. SkillsUSA strives to build and reinforce self-confidence, work ethic and communication skills.

## For More Information

The Career & Technical Education Department  
6301 South Stadium Lane  
Katy, Texas 77492  
281-396-2633

### Resources

*Achieve Texas in Action: A College and Career Planning Guide* - Texas Education Agency  
*Occupational Outlook Handbook* - U.S. Department of Labor

*It is the policy of Katy ISD not to discriminate on the basis of sex, disability, race, religion, color, gender, age, or national origin in its educational programs and/or activities including career and technical education programs, nor in its employment practices.*