



**Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.**



<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Sample Career Specialties / Occupations</b></p>	<p><b>Air/Space Transportation:</b>          Transportation managers—air          Air traffic controllers          Aircraft cargo handling supervisors          Airfield operations specialists          Airplane pilots/copilots          +Commercial pilots  <input type="checkbox"/> Dispatchers—air  <input type="checkbox"/> Flight attendants          Flight engineers          Traffic managers          Other airlines operations and support jobs  <b>Rail Transportation:</b>          Transportation managers—rail          Dispatchers—rail          Locomotive engineers          Locomotive firers          Railroad brake, signal and switch operators (including train crew members and yard workers)          Railyard conductors and yardmasters          Railyard engineers, dinky operators, and hostlers          Traffic managers          Other railyard and terminal operations and support jobs  <b>Road Transportation</b>          Transportation managers—road          Bus drivers—school          + Bus drivers—transit and intercity          Dispatchers—Truck/bus/taxi, traffic managers</p> <p>✦ Taxi drivers and chauffeurs          Truck drivers—heavy          ✦ Truck drivers—light or delivery services          Truck drivers—tractor-trailer          Truck/bus/taxi terminal operations and support jobs  <b>Transit Systems:</b>  <input type="checkbox"/> Transportation managers—mass transit          Bus drivers—transit and intercity          Dispatchers—bus          Dispatchers—rail          Subway and streetcar operators          Traffic managers          Other terminal operations and support jobs  <b>Water Transportation:</b>          Transportation managers—water          Able seamen          Bridge and lock tenders          Captains          Dispatchers—water  <input type="checkbox"/> Mates          Motorboat operators          Ordinary seamen          Pilots of water vessels          Sailors and marine oilers          Ship and boat captains          Ship engineers          Traffic managers          Other port/harbor/waterway/marina operations and support jobs</p>	<p>International logistics          Logisticians          Logistics analysts          Logistics consultants          Logistics engineers          Logistics managers</p>	<p>Car, truck and ship loaders          First-line supervisors/managers of helpers          First-line supervisors/managers of transportation and material-moving machine and vehicle operators          Industrial and packaging engineers          Laborers and freight, stock and material movers, hand          ✦ Laborers, and material movers—hand          Other packaging/packing/material handling and moving jobs          ✦ Packers and packagers—hand          Production, planning, expediting clerks          Storage and distribution managers          ✦ Traffic, shipping and receiving clerks          Warehouse managers</p>	<p><b>Facility:</b>  <input type="checkbox"/> Electrical/electronic technicians          Facility maintenance managers and engineers          Industrial electricians          Industrial equipment mechanics          Other facility/terminal maintenance jobs  <b>Mobile Equipment: General</b>  <input type="checkbox"/> Electrical and electronic installers and repairers—transportation equipment          Mobile equipment maintenance managers          Mobile heavy equipment mechanics  <b>Air/Space</b>          +Aerospace engineering and operations technicians          Aircraft body and bonded structure repairers  <input type="checkbox"/> Aircraft engine specialists          Aircraft mechanics and service technicians  <input type="checkbox"/> Airframe mechanics  <input type="checkbox"/> Avionics technicians</p>	<p>Power plant mechanics  <b>Rail</b>          Rail car repairers          Rail locomotive and car mechanics and repairers          Signal and track switch repairers  <b>Road</b>          Automotive body and related repairers          Automotive glass installers and repairers          Automotive master mechanics  <input type="checkbox"/> Automotive service technicians and mechanics          Automotive specialty technicians          Automotive/truck mechanics and body repairers          Bicycle repairers          Bus and truck mechanics and diesel engine specialists  <input type="checkbox"/> Electronic equipment installers and repairers—motor vehicle          Motorcycle mechanics          ✦ Tire repairers and changers  <b>Water</b>  <input type="checkbox"/> Motorboat mechanics          Ship mechanics and repairers</p>	<p><b>Air/Space</b>          Air traffic controllers          Aviation inspectors  <b>General—Intermodal</b>          +Civil engineers          Engineering technicians          Environmental compliance inspectors          Government service executives  <input type="checkbox"/> Surveying and mapping technicians          +Urban and regional planners  <b>Rail</b>          Railroad inspectors  <b>Road</b>          Freight inspectors          Motor vehicle inspectors          Traffic engineers          +Traffic technicians  <b>Transit</b>          Public transportation inspectors  <b>Water</b>          Marine cargo inspectors          Vessel traffic control specialists  <b>Other</b>          Inspectors, Regulators, other federal/state/local transportation agency jobs          Other government agency managers</p>	<p>Environmental compliance inspectors          Environmental managers and engineers          Environmental science and protection technicians          Environmental scientists and specialists          Health and safety managers          Industrial health and safety engineers          Safety analysts</p>	<p>Cargo and freight agents          ✦ Cashiers, counter and rental clerks          Customer order and billing clerks          Customer service managers          ✦ Customer service representatives          Marketing managers          ✦ Reservation, travel and transportation agents/clerks  <input type="checkbox"/> Sales managers          Sales representatives—transportation/logistics services</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Pathways</b></p>	<p style="text-align: center;"><b>Transportation Operations</b></p>	<p style="text-align: center;"><b>Logistics Planning and Management Services</b></p>	<p style="text-align: center;"><b>Warehousing and Distribution Center Operations</b></p>	<p style="text-align: center;"><b>Facility and Mobile Equipment Maintenance</b></p>	<p style="text-align: center;"><b>Transportation Systems/Infrastructure Planning, Management, and Regulation</b></p>	<p style="text-align: center;"><b>Health, Safety, and Environment Management</b></p>	<p style="text-align: center;"><b>Sales and Service</b></p>	
<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Cluster K&amp;S</b></p>	<p><b>Cluster Knowledge and Skills</b></p> <ul style="list-style-type: none"> <li>• Academic Foundations</li> <li>• Communications</li> <li>• Employability and Career Development</li> <li>• Ethics and Legal Responsibilities</li> <li>• Information Technology Applications</li> <li>• Leadership and Teamwork</li> <li>• Problem Solving and Critical Thinking</li> <li>• Safety, Health, and Environment</li> <li>• Systems</li> <li>• Technical Skills</li> </ul>				<p><b>Education Needed for Career</b></p> <ul style="list-style-type: none"> <li>✦ High School – completed high school, high school with career and technology training, GED, on-the-job training, or apprenticeship</li> <li><input type="checkbox"/> Junior College – completed junior/community college, postsecondary technical, or career and technology training</li> <li>+ Baccalaureate Degree – completed four-year degree or more</li> </ul>			