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.

### Sample Career Specialties / Occupations

<table>
<thead>
<tr>
<th>Air/Space Transportation</th>
<th>Rail Transportation</th>
<th>Road Transportation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transportation managers—air</td>
<td>Transportation managers—rail</td>
<td>Transportation managers—road</td>
</tr>
<tr>
<td>Air traffic controllers</td>
<td>Dispatchers-rail</td>
<td>Bus drivers—school</td>
</tr>
<tr>
<td>Aircraft cargo handling supervisors</td>
<td>Locomotive engineers</td>
<td>Bus drivers—travel</td>
</tr>
<tr>
<td>Airfield operations specialists</td>
<td>Locomotive firemen</td>
<td>Traffic managers</td>
</tr>
<tr>
<td>Airline pilots/copilots</td>
<td>Railroad brake, signal and switch operators (including train crew members and yard workers)</td>
<td>Other rail yard and terminal operations and support jobs</td>
</tr>
<tr>
<td>Commercial pilots</td>
<td>Traffic managers</td>
<td>Rail yard conductors and yardmasters</td>
</tr>
<tr>
<td>Flight attendants</td>
<td>Other rail yard and terminal operations and support jobs</td>
<td>Railyard engineers, dinkey operators, and hostlers</td>
</tr>
<tr>
<td>Flight engineers</td>
<td>Other rail yard and terminal operations and support jobs</td>
<td>Other Traffic managers</td>
</tr>
</tbody>
</table>

### Facility and Mobile Equipment Maintenance

- **Facility:**
  - Electrical/electronic technicians
  - Facility maintenance managers and engineers
  - Industrial electricians
  - Industrial equipment mechanics
  - Other facility/terminal maintenance jobs

- **Mobile Equipment: General**
  - Electrical and electronic installers and repairers—transportation equipment
  - Mobile equipment maintenance managers
  - Mobile heavy equipment mechanics

- **Air/Space**
  - Aerospace engineering and operations technicians
  - Aircraft body and bonded structure repairers
  - Aircraft engine specialists
  - Aircraft mechanics and service technicians
  - Airframe mechanics
  - Avionics technicians

- **Transportation Systems/Infrastructure Planning, Management, and Regulation**
  - Automotive brake, signal and switch operators and repairers
  - Automotive body and related repairers
  - Automotive glass installers and repairers
  - Automotive master mechanics
  - Automotive service technicians and mechanics
  - Automotive specialty technicians
  - Automotive truck mechanics and body repairers
  - Bicycle repairers
  - Bus and truck mechanics and diesel engine specialists
  - Electronic equipment installers and repairers—motor vehicle
  - Motorcycle mechanics
  - Tire repairers and changers

- **Water**
  - Motorboat mechanics

### Education Needed for Career

- High School – completed high school, high school with career and technology training, GED, on-the-job training, or apprenticeship
- Junior College – completed junior/community college, postsecondary technical, or career and technology training
- Baccalaureate Degree – completed four-year degree or more

### Cluster Knowledge and Skills

- **Academic Foundations**
  - Information Technology Applications
  - Leadership and Teamwork
  - Problem Solving and Critical Thinking

- **Communications**
  - Safety, Health, and Environment
  - Systems
  - Technical Skills

- **Employability and Career Development**
  - Safety, Health, and Environment
  - Systems
  - Technical Skills

- **Ethics and Legal Responsibilities**
  - Safety, Health, and Environment
  - Systems
  - Technical Skills