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

Cognitive and mental requirements
The qualifications that workers need to use judgment, make decisions, interact with others, and adapt to changes in jobs.

In 2021, verbal interactions were required constantly (every few minutes) for 14.1 percent of aircraft mechanics and service technicians, and were required not constantly, but more than once per hour for 70.8 percent.

Table 1. Percentage of aircraft mechanics and service technicians with cognitive and mental requirements, 2021

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pace: Pause control</td>
<td>72.5</td>
<td>27.5</td>
</tr>
<tr>
<td>Interaction with general public</td>
<td>11.2</td>
<td>88.8</td>
</tr>
<tr>
<td>Working around crowds</td>
<td>-</td>
<td>100.0</td>
</tr>
<tr>
<td>Telework</td>
<td>-</td>
<td>100.0</td>
</tr>
<tr>
<td>Work review: Supervising others</td>
<td>6.5</td>
<td>93.5</td>
</tr>
</tbody>
</table>


Education, training, and experience requirements
The minimum level of formal education required, credentials necessary, on-the-job training, and prior work experience necessary for average performance in jobs.

In 2021, credentials were required for 95.5 percent of aircraft mechanics and service technicians. Prior work experience was required for 68.3 percent. A high school diploma was required for 72.9 percent of aircraft mechanics and service technicians.

Environmental conditions
The various tangible or concrete hazards or difficulties that are in the vicinity of where jobs’ critical tasks are performed.

In 2021, 90.5 percent of aircraft mechanics and service technicians were in the proximity of moving mechanical parts. Personal protective equipment (PPE) was not used by 43.7 percent of workers to mitigate the exposure to moving mechanical parts, while 46.7 percent did use PPE.

Physical demands
Refer to the physical activities required to perform tasks in jobs. The presence and, in some cases, duration of these activities are published.

In 2021, reaching at or below the shoulder was required for 98.9 percent of aircraft mechanics and service technicians. Driving was required for 74.7 percent of these workers.

Performing work in low postures was required for 94.3 percent of aircraft mechanics and service technicians and was not required for 5.7 percent. For 30.4 percent of workers, crawling was required to perform low work, and 44.4 percent were required to stoop.

Chart 1. Percentage of aircraft mechanics and service technicians without exposure to environmental conditions, 2021