



Careers in manufacturing: aeroskills

Aircraft maintenance

Aircraft maintenance workers assist aircraft maintenance engineers across the three areas of aircraft maintenance: avionics, mechanical and structures.

In avionics they might assist in the installation, maintenance, modification, repair and fault diagnostics of electrical, electronic, instrument and radio systems, as well as other electrical and electronic components and accessories on aircraft. These include generator and power-distribution systems, protection systems, autopilot and integrated flight systems, environmental control systems, and radar and communication systems.

In mechanical they might help to overhaul, repair, modify and test airframe and engine components in a workshop environment after they have been removed from the aircraft structure. These include landing gear, wheels and brakes, pressurisation, pneumatic and hydraulic devices, environmental control systems, fire detection and prevention systems, undercarriage, and ice and rain protection systems.

In structures they might help to produce, maintain and repair sheet metal, bonded and non-metallic composite material and components on aircraft, including the framework and internal ribs and the aircraft fuselage, wings and engine cowlings. They will become familiar with airframe, engine and electrical components. They might help to carry out a wide variety of metal forming and joining processes using hand and power tools, and help on work with high tech fibre-reinforced composites and materials of many types.

Aircraft surface finisher

Surface finishing occupations meet industry and Australian Defence Force (ADF) aviation-specific requirements for the surface finishing of aircraft and aircraft components.

A number of industry organisations and the ADF train and employ aircraft surface finishers. In some cases these individuals are trained from entry level and in other cases they are recruited and converted from automotive spray painting roles to aircraft surface finishing.

Individuals that have a higher level of multi-skilling than those at Certificate III level and/or have supervisory responsibilities in either the civilian or ADF regulatory environments can complete the Certificate IV in Aircraft Surface Finishing.

Relevant qualifications:

- Certificate II in Aircraft Surface Finishing
- Certificate III in Aircraft Surface Finishing
- Certificate IV in Aircraft Surface Finishing

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