

WAGE GRADE CAREER PATH

WG 8840

Aircraft Mechanical Parts Repairing

This occupation covers nonsupervisory work involved in the repair, modification, overhaul/ recondition, and test of mechanical parts and components removed from fixed and rotary wing aircraft such as control columns, transmissions, gear boxes, landing gear components, clutch assemblies, rotor head assemblies and blades, constant speed drives, mechanical actuators, wheel and rotor brake assemblies, cargo hooks, engine controls, cable tension regulators, accessory drive gear boxes, cargo winches, turbine blades, and compressor vanes. The work requires knowledge of the mechanical relationships and operational characteristics of mechanical parts and components being repaired or reworked. The work does not require a substantive knowledge of aircraft systems and their interrelationships.

WG02 - Step
WG05

Part 1
Apprentice/Helper/Trainee; Trade/Less than Journeyman

- 1 Complete New Hire Orientation
- 2 Complete Civilian Training Plan requirements for current position
- 3 Complete task qualifications for current position
- 4 Complete task certifications for current position
- 5 Master simple to common work tasks under supervision
- 6 Maintain successful to above average performance ratings

WG05 -
WG08

Part 2
Trade/Less than Journeyman

- 1 Continue required on-the-job and formal classroom training required in Civilian Training Plan
- 2 Complete task qualifications for current position
- 3 Complete task certifications for current position
- 4 Master common to complex work tasks. Grade 7 aircraft mechanical parts workers perform work involving the disassembly, cleaning, inspection, repair, assembly, and maintenance of mechanical parts of aircraft components according to detailed maintenance and repair procedures. The work includes visual and dimensional examination of parts and less complex components such as fuel valves, rotor blades, compressor blades, and oil pumps for obvious defects such as nicks, scratches, leaks, or corrosion, or for worn, bent, or broken parts; replacing or reworking damaged parts; and performing bench tests for operability of moving parts. Grade 7 repairers may assist higher grade mechanical parts repairers on assignments involving mechanical components of greater complexity by disassembling and assembling the simpler items, erecting jigs and fixtures, and installing safety wires and seals.
- 5 Maintain successful to above average performance ratings

Part 3
Journeyman

- 1 Continue required on-the-job and formal classroom training required in Civilian Training Plan
- 2 Complete task qualifications for current position
- 3 Complete task certifications for current position
- 4 Master common to complex work tasks. Grade 9 level repairers are more complex and have a larger number of interrelating parts and closer tolerances requiring a higher level of skill in tracing hard-to-locate defects, rework, and reassembly. The parts include items such as constant speed drives, tail gear boxes, rotor head assemblies, flight and engine controls, hydromechanical clutches, accessory drive gear boxes, and intermediate gear boxes. Repairers at this level also have greater knowledge of how the various components fit and work together. Grade 9 aircraft mechanical parts repairers disassemble, examine, evaluate, repair, align, balance, adjust, modify, test, troubleshoot, reassemble, and functionally test, calibrate, and maintain a variety of flight control and landing gear mechanical and hydraulic components and hydromechanical clutches, such as tail rotor drive shafts, rotor heads, wheel and rotor brake assemblies, and various quick change units. They may perform limited repair and adjustments on the assembly line or flight line of malfunctioning items previously repaired/overhauled.
- 5 Master common to complex work tasks. Grade 10 aircraft mechanical parts repairers disassemble, examine, repair, modify, overhaul, reassemble, test, and troubleshoot aircraft mechanical components and assemblies requiring more extensive aligning, fitting, adjusting, and troubleshooting sequences. The grade 10 repairers are assigned aircraft components such as main transmissions, and other mechanical assemblies of equal or greater complexity, containing thousands of individual parts, which require sequential and interdependent adjustments and settings so that the components will automatically adjust to their own performance and meet specified operating requirements. Aircraft components assigned at this level are more complex and more difficult to adjust, align, rework, test, and troubleshoot in that their performance requires adjustments, alignments, and settings to be made over a range of performance levels and as each is made preceding settings may be affected.

Grade 10 repairers may be required to perform final operational tests (e.g., endurance, vibration, and performance) and lubrication runs in test cells on items repaired or overhauled. They troubleshoot and perform limited repair and adjustment on items failing test specifications or malfunctioning items on the assembly line or flight line.
- 6 Provide production support services
- 7 Maintain successful to above average performance ratings

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