

WAGE GRADE CAREER PATH

WG 8268

Aircraft Pneudraulic Systems Mechanic

This occupation covers nonsupervisory work involved in the maintenance, modification, and repair of hydraulic and pneumatic systems associated with aircraft. The work requires: knowledge of the physical principles governing the behavior of fluids (liquids and gases) as they pertain to hydraulic and pneumatic systems and their components; knowledge of aircraft structures and the relationship of hydraulic pneumatic systems to the structure and other aircraft systems; knowledge of basic electrical and mechanical principles; the ability to use technical manuals and schematics and to test for and isolate malfunctions in hydraulic and pneumatic systems; and the skill to effect modifications, repairs, or maintenance required.

**WG02 - Step
WG05**

Part 1

Apprentice/Helper/Trainee; Trade/Less than Journeyman

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| | 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

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| | 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 Maintain successful to above average performance ratings |

Part 3

Journeyman

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| | 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 pneudraulic systems mechanics disassemble, repair, reassemble, test, troubleshoot, and maintain complex hydraulic and pneumatic components, subsystems, and systems such as pressure regulating and unloading valves; jet engine compressor bleed governors and anti-icing valves; transfer pumps and other hydraulic pumps and motors; actuating, servo, and hydropneumatic cylinders, oil and fuel filters, and manifold valves; landing gear control valves; gas turbine engine oil pumps; and similar items on ground, marine, aircraft, or missile systems. components assigned to grade 9 level mechanics are complex because they are designed to respond to proportional input of variable forces or conditions, control rates of change, and have multiple stage functions and automatic reset or adjustment circuits. |
| | 5 Master common to complex work tasks. Grade 10 mechanics inspect, maintain, modify, troubleshoot, repair, overhaul and test aircraft hydraulic and pneumatic systems and components. They: <ul style="list-style-type: none"> - Inspect or troubleshoot brake mechanisms and struts, wing and cowl flaps, windshield wipers, pressure regulators, pumps, pressure relief valves, brake cabin pressurization systems, shimmy dampets and other aircraft hydraulic and pneumatic accessories. - Jack aircraft to flight configuration, hook up power sources, and using cockpit controls and gauges and additional precision instruments, check operations of such items as landing gear doors, ground and flight spoilers, and steering and brake systems for performance and conformance to operational specifications. - Test systems using test stands. - Diagnose malfunctions and overhaul pneudraulic accessories by disassembling, cleaning, and examining parts for corrosion, wear, scratches, cracks or other damage, replacing gaskets and worn parts; reassemble accessories, adjusting and testing to insure proper operation in accordance with standards in technical specifications. - Rig cables and adjust associated pneudraulic equipment on landing gear doors, bomb bay and ramp doors, and other aircraft features involving pneudraulics. - Fabricate fuel, oil, and vacuum hose lines, and test as provided in technical orders |
| | 6 Provide production support services |
| | 7 Maintain successful to above average performance ratings |

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