Flight Test Modification Electrician “A”

48933

Job Description:

• Modifies various types of production and experimental aircraft to accommodate electrical installation of flight test equipment, power supplies, and instrumentation systems for experimental flight test programs. Plans, lays out, fabricates, assembles, installs, interconnects and functionally checks out electrical/electronic installations for flight test projects.

• Works from military specifications, blueprints, schematics, wiring diagrams, non-standard interconnection lists, rough sketches, and follows general instructions from engineers

• Determines location and arrangement of power supply, radar or missile electro-optical or instrumentation projects for the initial phases of test programs. Obtains engineering approval of electrical mockups.

• Determines sequence of operations and methods to follow in lay out, fabricating, assembling, installing, hook-up and final functional checkout of complete electrical installation of test equipment and instrumentation prior to experimental test flights

• Responsible for fabrication and installation of electrical wiring and components for power distribution systems, radar, missile, electro-optical instrumentation systems into pads and aircraft and makes interconnections as required

• Performs electrical work necessary to modify aircraft to facilitate the installation of all test equipment and instrumentation for initial phases of test programs

• Performs final functional checkout of electrical installations in aircraft by applying progressive and full power to power distribution system, using load banks, power carts, megger checkers, and ohmmeters

• Performs rework of the same nature and level of difficulty as described

• Qualifies for and maintains necessary certifications and/or licenses as required

• Performs incidental related duties as assigned or required

Required Skills:

Possess a minimum of 5 years experience in the following areas of Civil/Military Aviation Electrical Modification workscopes.

Desired Skills:

• FAA Airframe & Powerplant Mechanics Rating

• Inspection Authorization desired

• Knowledgeable of Federal Aviation Regulations

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Flight Test Modification Mechanic "A"

Job Description:

• Modifies the structure of various types of production and experimental aircraft to accommodate installation of flight test and instrumentation equipment for experimental flight test programs. Plans, lays out, and fabricates sheet metal parts and assemblies and installs on aircraft for flight test projects as required
• Works from drawings, photos, sketches, oral and written instructions
• Plans sequence of operations and methods to follow in laying out, fabricating, assembling, and installing complex sheet metal, plastic, machined, extruded and tubing parts and assemblies for aircraft and related equipment
• Makes layouts and completely builds temporary tooling to fabricate developmental or modified structural assemblies for installation in aircraft or for mockup. Uses a wide variety of fabrication machines, such as power shears, power brakes, hand brakes, saws, routers, grinders, shrinkers, forming rolls, drill press, riveters, and arbor press to complete assigned project.
• Fabricates parts and assemblies from measurements taken directly from aircraft as required
• Performs major modification or rework to exterior contour of aircraft involving primary structure to accommodate new configurations of radomes, antennas, stress doors, camera fairings air scoops, pods and sensors. Hand fits assemblies to extremely close tolerances.
• Modifies floor structure, frames, stringers, bulkheads and load carrying member of aircraft to support racks of electronic and flight test equipment
• Responsible for installation of mechanical structures of missile radar components and all power equipment used to operate flight test equipment and for the installation of cameras, missile pylons, pods and antennas
• Qualifies for and maintains certifications and/or licenses as required
• Performs rework of the same nature and level of difficulty as described
• Performs incidental related duties as assigned or required

Required Skills:

Possess a minimum of 5 years experience in the following areas of Civil/Military Aviation Modification work scopes.

Desired Skills:

• FAA Airframe & Powerplant Mechanics Rating
• Inspection Authorization desired
• Knowledgeable of Federal Aviation Regulations

Contact: wdjohnston@raytheon.com