

## **Fire Aircraft Mechanic**

### **Definition:**

Under direction, maintains, repairs, and modifies to critically close tolerance helicopter and fixed wing aircraft to ensure airworthiness and to do related work as required.

The Fire Aircraft Mechanic position repairs and services aircraft and engines as determined by assignment. Incumbents perform job duties under the direction of the Supervising Aircraft Mechanic.

### **Essential Functions:**

- Ensures airworthiness of aircraft; services, repairs, and makes modifications to aircraft and engines on a scheduled basis and as conditions warrant; follows aircraft and engine manufacturers' manuals and other sources for approved specification and technical data; uses a variety of hand, power and shop floor tools.
- Inspects and troubleshoots engines for deficiencies and malfunctions; tests engine operation using diagnostic equipment; performs precise measurements using appropriate tools and instruments; makes recommendations for repair and replacement of parts according to malfunction.
- Removes and disassembles aircraft and its components using hoist or other lifting devices; disassembles and inspects parts for serviceability and discrepancies; replaces unserviceable airframe and engine components.
- Responds to emergency aircraft call-outs from base site; troubleshoots, repairs and makes adjustments to electrical systems in aircraft, accessories and instruments that affect aircraft airworthiness.
- Consults with pilots, both in flight and on the ground, as to probable cause of malfunction or unusual operating conditions; participates in maintenance test flights to ascertain aircraft airworthiness; conducts pre-flight and post-flight inspections to ensure continued airworthiness.
- Starts and secures aircraft; performs aircraft cleaning and corrosion control.
- Maintains hangar and work area cleanliness and orderly housekeeping.
- Prepares and maintains required reports and records; may be responsible for developing record keeping policies.
- Performs other duties of similar nature or level as required.

### **Employment Standards:**

**License:** Incumbents are required to have and maintain a valid FAA Airframe and Powerplant certificate.

- Three (3) years of experience as an aircraft mechanic, including two (2) years of experience with light and/or medium turbine helicopters.

**Knowledge of:** approved aircraft maintenance and repair principles, procedures and techniques; applicable FAA regulations and requirements: mathematical processes, including algebraic and geometric principles; blade tracking and balancing methods and equipment; operations and capabilities of applicable aircraft; report writing techniques.

**Skill in:** aircraft maintenance and repair; working with and interpreting electrical conditions, such as measuring, capacitors, inductors, voltage, current, resistance, continuity, and leakage, calculated measure, conductivity in electrical power; reading and interpreting drawings and specifications, including electrical; performing complete weight and balance checks; utilizing approved non-destruction testing methods; determining area and volume of geometrical shapes; solving ratio proportion in percentage problems: completing required reports and forms: writing description of aircraft capabilities, environmental conditions, and work performed; working under emergency conditions as warranted; communicating both orally and in writing sufficient to exchange or convey information and to receive work direction.

A background check may be conducted for this classification.

All Kern County employees are designated "Disaster Service Workers" through state and local laws (CA Government Code Sec.3100-3109 and Ordinance Code Title 2-Administration, Ch. 2.66 Emergency Services). As Disaster Service Workers, all County employees are expected to remain at work, or to report for work as soon as practicable, following a significant emergency or disaster.