

## **AIRPORT ELECTRICIAN**

**DISTINGUISHING FEATURES OF THE CLASS:** This position exists at the County Airport and involves responsibility for the installation and maintenance of airport lighting and other electrical systems and equipment in accordance with specified operational standards. An employee in this class routinely performs skilled duties associated with troubleshooting, disassembly, cleaning, adjusting, repairing, testing, calibrating and reassembly of electrical and electronic equipment. The work is performed under supervision of the Deputy Commissioner of Aviation or Airport Maintenance Supervisor, with leeway allowed for the exercise of independent judgement in carrying out technical details of the work. Supervision over the work of others is not normally a responsibility of employees in this class. Does related work as required.

**TYPICAL WORK ACTIVITIES:** (Illustrative Only)

Maintains airport lighting system by installing electrical components, switches, relays, and lighting fixtures;

Tests and repairs electrical fixtures, equipment and devices;

Maintains blueprints and wiring diagrams, code requirements and building plans for electrical circuitry of airport facilities;

Installs, maintains and repairs wiring panels, circuit breakers, motors and switches;

Replaces wiring, switches, bulbs and transformers to ensure continuous, safe operation of airport landing and taxi-way lights;

Troubleshoots and repairs control circuits, power grids and motor/pumps required to provide continuous operation of airport and water systems;

Maintains electronic switching gear, regulators and wiring for field lighting operation;

Maintains electrical systems for commercial-type buildings, transformers and related equipment to ensure continuous field operation;

Installs and/or replaces underground cable used in airfield lighting;

Works from blueprints, wiring diagrams and sketches to enable trouble-shooting and/or knowledge of airport electrical systems;

Plans for, and carries out, preventive maintenance program for power, lighting, controls and switching equipment;

Aids Automotive Mechanics in maintenance of airport type vehicles by troubleshooting and correcting electrical problems;

May operate fire or rescue equipment or serve with fire rescue crew only in event of an emergency;

May operate such motor equipment as a snow plow, sander, payload, etc. when required.

**FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS:**

Thorough knowledge of the common practices, tools, test equipment, terminology and accident precautions of the electrical trade; thorough knowledge of the installation, maintenance and repair of electrical wiring, relays, switches, motors, devices and equipment; thorough knowledge of variable and fixed speed electrical motor installation and repair; good knowledge of electrical systems and lighting demands used in the illumination of large areas; working knowledge of gasoline motors; ability to troubleshoot and repair switching control panels; ability to work with low and high power circuits; ability to work from plans, specifications and follow rough sketches and oral instructions; ability to practice safe techniques and follow code requirements for high voltage systems up to 5,000 volts.

**MINIMUM QUALIFICATIONS:** Three (3) years of experience as a journey level electrician.