

As the Electrician Worker, you will perform basic repairs and preventative maintenance on airport electrical systems and build skills toward the target level of a journey-level Interior Electrician.

JOB DESCRIPTION

- Electrician Worker
- This is a developmental job at the developmental level and is intended to lead to full performance (journey) level T19 Interior Electrician work. After a total of 24 months at the developmental level, successful performance is determined by passing a test of journey level knowledge, and full performance level of work (TINELT19) is intended.
- Works under the direct supervision of a journey level Interior Electrician, Leader or Supervisor.
- Serves in the Electrical Division of the Engineering and Maintenance Department at Ronald Reagan Washington National Airport (DCA).

Performs basic planned repairs and preventive maintenance on airport electrical systems and equipment. Receives individual assignments and on-the-job training, and attends formal classes, to help build airport electrical system knowledge, troubleshooting skills, and other proficiencies. Performs related functions.

GENERAL RESPONSIBILITIES

- Performs a variety of duties to maintain electrical systems (lighting, baggage belt systems and utility systems) and equipment (illuminated signs, pumps, light fixtures, distribution power panels, etc.). Isolates faults in wiring, replaces and splices wire. Locates tripped circuit breakers, cleans or replaces contacts and springs, and recalculates line loads as required.
- Uses drawings or blueprints to troubleshoot faulty circuits and to install conduit, wiring, circuits, and receptacles for renovation of office space or installation of communication lines or new equipment such as a large air-conditioning unit. Makes or modifies electrical drawings, as required.
- Bends conduit ranging from ½” to 4” EMT, rigid, IMC. Repairs motors by replacing couplings, belts, reduction gear, bearings, brushes, shafts, etc. Install/repair ballasts, transformers, capacitors, sockets, starters, fuses and lamps in lighting systems.
- Responds to trouble calls about malfunctioning equipment, such as sewage lift stations, faulty hangar doors, to determine whether problems can be corrected without calling the service contractor, e.g., repairs safety disconnect switches, motor controls and tightens loose connections, etc.
- As required, follows safe-clearance switching orders to create temporary outage by taking feeder offline in the interior electrical vault so that special repairs or installations may be made.
- As assigned, performs miscellaneous work such as re-lamping, operating aerial lifts, inspecting hand driers in restrooms and making needed repairs, and cleaning dry and liquid type transformer, etc.
- Performs electrical work following the National Electric Code (NEC) and the Airports

Authority Design Manual.

- Uses blueprints, schematics, and manufacturer's manuals. Uses various hand and power tools and equipment of the trade.
- Performs other duties as assigned.

QUALIFICATIONS

- Three years of progressively responsible work in basic maintenance and repair of electrical equipment and systems.
- Knowledge of and skill in low voltage electrical equipment and systems maintenance and repair/replacement. This includes knowledge of the theories, principles, requirements, and standards of electrical work.
- Knowledge of core parts of the National Electric Code to work on electrical systems and meet requirements.
- Skill in using tools, schematics, blueprints, and other equipment in electrical work.
- Ability to analyze data and information (including blueprints and schematics).
- Ability to work safely and knowledge of the safety rules, regulations and procedures needed to do so.
- Ability to speak and write effectively.
- Skill in using a computer, computerized work order and time and attendance system.

EDUCATION

- A high school diploma, a Certificate of General Educational Development (GED), or an equivalent combination of education, experience and training.

CERTIFICATIONS AND LICENSES REQUIRED

- A state driver's license in good standing.

NECESSARY SPECIAL FACTORS

- Work is physically demanding and requires bending, stooping, crouching or otherwise positioning self to access confined spaces, hard to reach places and high structures. Work requires use of personal protective equipment.
- Work is typically performed on an active airfield around large operating aircraft and inside and outside in all types of weather.
- Work is typically reviewed in progress and upon completion for quality, quantity, timeliness, teamwork, customer service, and other factors.
- Work may require the ability to lift, push/pull or position items weighing up to 45 pounds.
- Subject to shift holdovers and recall on a 24-hour basis, for essential services and emergencies, including night hours and weekends.