

APPRENTICE ELECTRICAL REPAIRER, 3850

Summary of Duties : Works as an apprentice, under close supervision, assisting journey-level electrical repairers and receiving on-the-job instruction in the maintenance, overhaul, repair, rebuilding, rewinding, dismantling, cleaning, reassembling, and installing of rotating and other electrical equipment; and does related work.

Distinguishing Features : An employee in this class works in a trainee capacity under close supervision assisting journey-level electrical repairers. The Apprentice Electrical Repairer receives both on-the-job and classroom training in order to acquire proficiency in all phases of shop and field electrical repairer work. Employment is limited to three years during which time the apprentice is expected to qualify for promotion to Electrical Repairer.

Examples of Duties : Assists journey-level electrical repairers in: maintaining, overhauling, repairing, rebuilding, rewinding, dismantling, cleaning, reassembling, and installing rotating and other electrical equipment; overhauling overhead and underground service transformers, induction voltage regulators, oil circuit breakers and similar equipment; disassembling, cleaning and checking windings for defects, rebuilding and replacing parts, rewinding, brazing and soldering lugs, leads and connections, and reassembling and painting as necessary; overhauling, rebuilding, and repairing of power plant and station equipment such as high voltage transformers, generators and synchronous condensers, and performing rigging work such as placing slings and cribbing, using block and tackle, and operating overhead crane and jacks; repairing, replacing and refitting all types of bearings in various electrical rotating equipment; fabricating special purpose electrical equipment such as coils, relays, flexible connectors and similar items, and laying out cuts, fabricating, drilling, painting and polishing fibre, bakelite, and steel for switchboards and terminal boards;

Independently cleans and overhauls small service transformers; rewinds small motors, small service transformer coils and other miscellaneous small coils; stacks laminations in small service transformer; dips and varnishes transformer coils, motor coils and other miscellaneous coils; repairs small miscellaneous electrical equipment; independently drills small terminal panels and miscellaneous small switchboard parts; and may occasionally be assigned to other duties for training purposes or to meet technological changes or emergencies.

Qualifications : A general knowledge of tools and equipment of the electrical repair trade; a general knowledge of electrical theory; a general knowledge of falls, blocks and rigging; a general knowledge of wire tracing; a general knowledge of safety practices of the electrical repair trade; the ability to read and comprehend electrical

manuals and instruction books; the ability to understand spatial relationships; the ability to interpret electrical diagrams; and the ability to communicate orally and deal effectively with other City employees.

One year of experience as an electrical craft helper is required.

License : A valid California driver's license is required.

Physical Requirements : Strength to perform average lifting up to 25 pounds and occasionally over 70 pounds; body agility and equilibrium involved in activities such as climbing and balancing under precarious conditions; back and leg coordination involved in activities such as stooping, kneeling, crouching and crawling to an unusual extent; arm, hand and finger dexterity with both hands involved in activities such as reaching, handling and feeling; good speaking and hearing ability; and good eyesight. Persons with handicaps may be capable of performing the duties of some of the positions in this class. Such determination must be made by the medical examiner on an individual basis.

As provided in Civil Service Commission Rule 2.5 and Section 4.55 of the Administrative Code, this specification is descriptive, explanatory and not restrictive. It is not intended to declare what the duties of any position shall be.