

CLASS SPECIFICATION
SAN DIEGO CITY CIVIL SERVICE COMMISSION
EQUIPMENT TECHNICIAN III - 1441

DEFINITION:

Under general supervision, to perform difficult repair and maintenance work on a wide variety of complex mechanical equipment at a water or sewage treatment plant, landfill gas flare stations, or Metro Pump Stations 1 and 2; to lead or supervise a crew in the repair and maintenance of such equipment; and to perform related work.

*** EXAMPLES OF DUTIES:**

- Inspects, installs, maintains, repairs, and overhauls a wide variety of complex and dissimilar mechanical equipment such as centrifugal, positive displacement, air ejector, turbine, sump, carbon, metering, and transfer pumps;
- Installs, maintains, and repairs traveling screens, chemical mixing and gear reduction units, chlorinators, and similar water and sewage equipment of comparable operational difficulty;
- Calibrates landfill gas and groundwater monitoring equipment such as Organic Vapor Analyzers, Flame Ionization Detectors, and pH and Electrical Conductivity meters;
- Monitors landfill generated gases such as methane, hydrogen sulfide, and sulfur dioxide using a variety of gas analyzing instruments, and makes minor adjustments to the landfill gas collection system according to general guidelines;
- Troubleshoots, diagnoses, and repairs problems with changes in flow, pressure, and volume on landfill gas and landfill gas collection lines;
- Diagnoses and repairs complex mechanical problems on gear and chain-driven equipment for grit chambers;
- Maintains and repairs liquid rheostats, gasoline driven carts, steam and hot water boilers, and landfill gas collection, heating and ventilation system blowers;
- Supervises staff performing small engine repair, adjustment of precision mowing equipment, and grinding/sharpening of reel mowers at multiple golf course sites;
- Maintains and repairs gasoline driven carts, gasoline driven air compressors, generators and pumps, electric blowers, air-powered submersible and dual diaphragm pumps, steam and hot water boilers, and landfill gas collection, heating and ventilation system blowers;
- Inspects, cleans, overhauls, and installs manifold, globe, plug, gate, vacuum release, and other types of valves;
- Repairs grinders and mechanical conveyors;
- Removes, replaces, and overhauls hoists, flights, and cross collectors;
- Repairs hydraulic pumps and systems;
- Installs necessary piping systems;
- Supervises backflow repair and replacement, backflow testing, and meter testing;

* **EXAMPLES OF DUTIES** performed by employees in this class. The list may not include all required duties, nor are all listed tasks necessarily performed by everyone in this class.

- Supervises staff performing skilled repair, overhaul, and maintenance work on complex dissimilar mechanical and hydraulic equipment in water or sewage systems including pumps and piping systems;
- Plans, assigns, and supervises the work of subordinates engaged in repairing a variety of complex, dissimilar water, sewage, and landfill gas mechanical equipment;
- Trains and rates the work performance of subordinate personnel;
- Inspects work in progress and upon completion;
- Maintains logs;
- Prepares reports and keeps records;
- As directed, applies productivity time guidelines and other required data to work repair forms;
- Drives a light truck.

MINIMUM QUALIFICATIONS:

Please note: the minimum qualifications stated below are a guide for determining the education, training, experience, special skills, and/or license which may be required for employment in the class. These are re-evaluated each time the position is opened for recruitment. Please refer to the most recent Job Description for updated minimum qualifications: <https://www.governmentjobs.com/careers/sandiego/classspecs>.

Three years of full-time experience overhauling, repairing, and maintaining a variety of mechanical equipment such as water or parking meters, pumps, valves, air compressors, power tools, small gasoline or diesel engines, irrigation equipment, mowers, shop equipment, and/or repairing and servicing safety equipment such as respirators, Self-Contained Breathing Apparatus (SCBA), explosimeters, air lines, emergency mobile equipment, light meters, sound level meters, and/or firefighting equipment; or golf operations equipment to include, but not limited to, triplex and five-gang reel mowers, electrical and hydraulic systems, and gasoline and diesel engines. Possession of a valid California Class C Driver's License may be required.