

MECHANICAL TECHNOLOGIST III

*Class specifications are intended to present a descriptive list of the range of duties performed by employees in the class. Specifications are **not** intended to reflect all duties performed within the job.*

DEFINITION

Under direction, to perform a variety of the more difficult semi-skilled and skilled operational and administrative tasks in the maintenance and/or repair of water/wastewater treatment plant machinery, stationary engines, pumps and related mechanical equipment; to perform preventive maintenance on equipment; and to perform related duties as assigned.

CLASS CHARACTERISTICS

This is the advanced journey-level class within the Mechanical Technologist series. Employees within this class are distinguished from other classes within the series by the level of responsibility assumed and the complexity of duties assigned. Employees perform the most difficult and responsible types of duties assigned to classes within this series including performing adjustments and repair to equipment requiring an advanced skill level, cost evaluations, ordering and inventory oversight related to plant preventative maintenance programs, training, and coordinating work of subordinate staff. Employees are required to possess a Grade III Mechanical Technologist certification at time of appointment to this level.

Positions in this series are flexibly staffed and may be filled by advancement from the II level. Advancement is not based on time in grade, but solely at the discretion of the Water Utilities Director, the organizational needs of the department, appropriate certification requirements and satisfactory job performance.

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

Oversees and participates in the more complex work of staff responsible for the inspection, maintenance, and repair of water/wastewater plant equipment including mechanical comminutors, bar screens, air compressors, piping systems, pumps, generators, motors, metering devices, dust collectors and chemical feed equipment; schedules and directs crews performing preventive maintenance on equipment; performs gas and arc welding; fabricates a variety of treatment plant parts; installs and aligns heavy motors and equipment; constructs plant engineering changes in accordance with plans; monitors, operates and maintains a variety of maintenance, repair, pneumatic and hydraulic power tools in a safe and effective manner; repairs and maintains piston, centrifugal, vertical bowl and diaphragm pumps; operates heavy equipment; performs cost evaluations related to plant preventative maintenance programs; orders parts and equipment and maintains tracking register of inventory in electronic database; trains subordinate personnel; processes and assigns work orders; coordinates staff schedules to ensure adequate coverage; prepares inventory, costing, workflow and staffing reports for supervisor; ensures procedures meet local and Federal safety standards; provides supervisory

oversight and administration in the absence of the supervisor; performs related duties and responsibilities as required.

MINIMUM QUALIFICATIONS

Knowledge of:

- Advanced methods and techniques of maintenance and repair to City water/wastewater treatment plant facilities and equipment.
- Methods, materials and tools used in the repair, removal and installation of a variety of mechanical equipment used in water/wastewater treatment plant operations.
- Advanced methods and techniques of metal fabrication and welding.
- Operation of treatment plant equipment.
- Principles of plant operation, equipment, and engineering.
- Principles and practices of piping and plumbing.
- Principles of report writing and preparation.
- Principles of lead supervision and training.
- Occupational hazards and standard safety practices.
- Rules, policies and pertinent Federal, State and local laws, codes and regulations regarding the maintenance of a water/wastewater plant.

Ability to:

- Oversee and participate in a variety of preventive maintenance duties.
- Lead, organize and review the work of staff.
- Inspect, diagnose and repair a wide variety of mechanical equipment.
- Operate a variety of maintenance and repair equipment in a safe and effective manner.
- Work independently and make sound decisions in the absence of supervision.
- Work in confined spaces.
- Maintain files, electronic databases and repair/maintenance records.
- Read, interpret and work from plans, drawings, schematics and specifications.;
- Understand and follow oral and written instructions.
- Communicate clearly and concisely, both orally and in writing.
- Establish and maintain effective working relationships with those contacted in the course of work.

Experience and Training Guidelines

Experience: Three years experience equivalent to a Mechanical Technologist II.

Training: Equivalent to the completion of the twelfth grade supplemented by training in mechanical technology or a related field.

License or Certificates:

- Possession of a valid Class B California Driver's License is required while assigned to this position.
- Possession of a Grade III Mechanical Technologist certification prior to appointment; must maintain current certification for duration of employment in this position.

WORKING CONDITIONS

Environmental Conditions: Water/Wastewater treatment plant environment; exposure to noise, dust, grease, smoke, fumes, gases, electrical energy, radiant energy, toxic materials, and inclement weather conditions; work in or with water and wastewater, working at heights, on slippery or uneven surfaces or underground; exposure to computer screens and keyboards.

Physical Conditions: Essential functions may require maintaining physical condition necessary for standing, walking or bending, kneeling, crouching for prolonged periods of time; heavy, moderate or light lifting; reaching overhead, pushing, and pulling; operating motorized equipment and vehicles; eyesight for driving, reading gauges and computer work. This position requires working shifts, including weekends, evenings, holidays, and on-call work.