

PLANT MECHANIC

*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 general supervision, performs a variety of skilled and semi-skilled duties and responsibilities involved in the maintenance, repair, service and installation of equipment, machinery and related facilities at one or more water treatment plants; performs related maintenance oriented tasks, keeps records and prepares reports; and performs a variety of tasks relative to assigned area of responsibility.

DISTINGUISHING CHARACTERISTICS

The Plant Mechanic is the experienced, journey-level classification. Incumbents perform the tasks common to the classification under less supervision, while exhibiting initiative, discretion and independent judgment within established guidelines.

SUPERVISION RECEIVED AND EXERCISED

Direct supervision is received from the Water Treatment Supervisor and/or Water Treatment Manager.

ESSENTIAL AND MARGINAL FUNCTION STATEMENTS--*Essential and other important responsibilities and duties may include, but are not limited to, the following:*

Essential Functions:

1. Inspect, maintain, repair and service water treatment plant machinery and equipment including pumps, valves, valve actuators, motors, engines, meters, drives, tanks, reservoirs, compressors, chemical feed and storage systems, UV disinfection systems, heating and air conditioning systems, and other equipment typical to a water treatment facility.
2. Install and rebuild pumps, motors, piping systems and specialized water treatment equipment.
3. Fabricate parts and equipment; operate welding, cutting, and general fabrication equipment.
4. Pack, lubricate, clean and paint mechanical equipment and motors.
5. Inspect newly installed mechanical equipment to ensure safe and satisfactory operation and functionality.
6. Perform preventive maintenance checks and servicing on equipment.
7. Participate in the repair and maintenance of industrial electrical equipment.
8. Keep accurate maintenance records.
9. Respond to emergencies and problems after hours and on weekends as directed.
10. Participate in mandatory standby rotation.
11. Perform related duties and responsibilities as required in a safe manner.
12. Regular attendance at the work site.

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Marginal Functions:

1. Perform routine plant operational assignments as required.
2. Performs related duties and responsibilities as required.

KNOWLEDGE, SKILLS AND ABILITIES

Knowledge of:

Principles and practices of surface water treatment plant operation.
Characteristics of chemicals used in water treatment processes.
Basic and semi-advanced mechanical, electrical and hydraulic principles.
Principles and practices of mechanical equipment maintenance and repair.
Principles and practices of general construction.

Skill in:

Materials, methods, practices, and equipment used in water treatment facility construction, maintenance and repair activities.
Principles, methods, materials and tools employed in the maintenance and repair of water treatment plant equipment and facilities.
Practices and techniques of carpentry, metal fabrication, pipe fitting, general electrical and mechanical construction.
Safe work methods and safety regulations pertaining to work.
Water treatment plant operating consoles and personal computers.
Use of hand, power tools and equipment.
Operation of front-loader, tractor, and hoist.

Ability to:

Learn to perform a variety of repair, maintenance, and servicing skills.
Perform moderately heavy manual labor and to lift up to sixty pounds (60 lbs.).
Learn preventive maintenance and inspection methods.
Accurately read and record data from gauges and meters.
Establish and maintain effective working relationships with those contacted in the course of work.
Work irregular hours when emergencies occur.
Learn and operate water treatment plant equipment.
Organize and prioritize work.
Perform maintenance and repair of plant equipment and devices.
Respond appropriately under pressure and exercise sound judgment.
Keep accurate records and prepare clear reports.
Communicate clearly and concisely, both orally and in writing.
Maintain physical condition appropriate to the performance of assigned duties and responsibilities.
Maintain mental capacity which allows the capability of making sound decisions and demonstrating intellectual capabilities.
Maintain effective audio-visual discrimination and perception needed for making observations, communicating with others, reading, writing and operating assigned equipment.

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REQUIRED QUALIFICATIONS

Experience and Training/Education:

Any combination of experience and training that would likely provide the required knowledge and abilities is qualifying. A typical way to obtain the knowledge and abilities would be:

Training/Education:

Equivalent to graduation from the twelfth grade supplemented by specialized training or coursework in the maintenance and repair of mechanical and electrical equipment and systems and/or other applicable construction-type trade(s).

Experience:

Two years of progressive experience maintaining a water treatment facility and/or water distribution system.

Certification:

Possession of a valid T2 Water Treatment Operator Certificate issued by the State Water Resources Control Board (SWRCB).

Possession of a valid D2 Water Distribution Operator Certificate issued by the State Water Resources Control Board (SWRCB).

Possession of, or ability to obtain within one year of appointment, a valid Plant Maintenance Technologist Grade I Certification issued by the California Water Environment Association (CWEA).

License:

Possession of a valid Class C California driver's license and a satisfactory driving record.

PHYSICAL DEMANDS AND WORKING ENVIRONMENT

The conditions herein are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential job functions.

Environment:

Water treatment plant and field environment; exposure to noise, dust, grease, fumes, gases, potentially hazardous chemicals, electrical energy, and inclement weather conditions including hot, cold, wet and/or humid conditions; work around water; work on slippery, uneven, surfaces; work in confined spaces; routinely climb ladders, stairs; regularly work near moving mechanical parts; and work around moderately loud noise levels; incumbents must be available to work variable shifts, including evenings, nights, weekends and holidays.

Physical

Incumbents require sufficient mobility to walk, stand, and sit for prolonged periods of time; occasionally stoop, bend, kneel, crouch, crawl, reach, and twist; push, pull, lift, and/or carry moderate to moderately heavy amounts of weights; operate assigned equipment and vehicles; ability to verbally communicate to exchange information.

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Vision

See in normal visual range with or without correction; vision sufficient to read computer screens and printed documents; and to operate assigned equipment.

Hearing

Hear in the normal audio range with or without correction.

DATE ADOPTED: January 2015

DATE MODIFIED: February 2018

Safety Sensitive Position