

JOB DESCRIPTION
Waterworks Technician II
Code Number: 52003

GENERAL PURPOSE

Under general supervision, performs a wide variety of work in the installation, maintenance and modification to District facilities while providing cost effective operations of a large waterworks system; and performs related duties as assigned.

DISTINGUISHING CHARACTERISTICS

Waterworks Technician II is the journey level class in the Waterworks Technician series. Incumbents perform a wide variety of skilled duties in the installation, maintenance and repair of the fundamental elements of the District's water and distribution systems. Trade areas covered by this class include hydraulic testing and monitoring; valve exercising, and automatic control valve installation and operation. This class is distinguished from the lower classification of Waterworks Technician I by the relative independence with which duties are performed. Incumbents in this class gain developmental experience to acquire the abilities to perform the full range of duties for the Waterworks Technician III class, which is the advanced journey level class in the series. Waterworks Technician II is further distinguished from Waterworks Technician III in that the latter serves as either a lead or advanced-journey level in the series.

Incumbents are typically assigned to one of two primary sections: (1) hydraulic testing; and (2) automatic control valves.

ESSENTIAL DUTIES AND RESPONSIBILITIES

The duties listed below are intended only as illustrations of the various types of work that may be performed. The omission of specific statements of duties does not exclude them from the position if the work is similar, related or a logical assignment to the class.

Performs a variety of skilled journey-level duties involved in the inspection, diagnosis, trouble-shooting and maintenance of the water distribution systems as related to pump testing, automatic control valve settings, and valve exercising.

Performs annual inspections/maintenance on all automatic control valves (earthquake, altitude and regulating), as designated by the preventative maintenance schedule.

Coordinates activities with other sections and divisions or agencies.

Submits requisitions for necessary tools, equipment and supplies.

Researches new operational methods, techniques and equipment and recommends their application.

Plans and lays out jobs from blueprints, drawings, sketches or verbal instructions; maintains records in the form of blueprints, plans and specifications for industrial and waterworks equipment and machinery.

Responds to emergency situations as necessary.

May assist in the training or instructing others in the work.

Performs related duties as assigned.

DESIRED MINIMUM QUALIFICATIONS

Knowledge of:

Mathematics including algebra, geometry and trigonometry; water hydraulics; basic electrical theory; basic practices of engineering design; cost estimating and drafting techniques; principles, methods, techniques, tools and equipment used in the installation, maintenance and the operation of a large waterworks system; safety practices, safe work methods and safety regulations; computer applications related to the work; codes, ordinances and regulations pertaining to the work.

Ability to:

Read and interpret engineering drawings survey notes and mechanical specifications; prepare pump system designs; exercise independent judgment and initiative within established guidelines; establish and maintain effective working relationships with those encountered in the course of work; coordinate work assignments with other sections, divisions or agencies; communicate effectively, orally and in writing; follow and apply oral and written work instructions.

Training and Experience:

A typical way of obtaining the knowledge, skills and abilities outlined above is graduation from high school, or G.E.D. equivalent; and two years of experience in the installation, maintenance and repair of pumping equipment, including valves, pumps and motors; or an equivalent combination of training and experience. Control valve training is desired.

Licenses; Certificates; Special Requirements:

A valid California driver's license and the ability to maintain insurability under the District's Vehicle Insurance Policy.

A State of California Water Distribution Operator Certificate, Grade II.

PHYSICAL AND MENTAL DEMANDS

The physical and mental demands described here are representative of those that must be met by employees to successfully perform the essential functions of this class. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Physical Demands

While performing the duties of this job, the employee is regularly required to use hands to finger, handle, feel or operate objects, tools or controls; and reach with hands and arms. The employee frequently is required to stand and talk or hear; and walk or sit. The employee is frequently required to climb or balance; stoop, kneel, crouch or crawl; and smell.

The employee must regularly lift and/or move up to 50 pounds and frequently over 100 pounds. Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, depth perception and the ability to adjust focus.

Mental Demands

While performing the duties of this class, the incumbent is regularly required to use written and oral communication skills; read and interpret data, information and documents; analyze and solve problems; use shop mathematics; observe and interpret situations; deal with changing, intensive deadlines; and interact with officials and the public.

WORK ENVIRONMENT

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this class. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

The employee frequently works near moving mechanical parts; on slippery and uneven surfaces; in extreme outside weather conditions in wet or humid conditions; and is exposed to toxic chemicals, fumes, gases and liquids, including but not limited to methane, chlorine, caustic soda, hydrogen sulfide, carbon monoxide, industrial and residential waste, airborne particles and the risk of electric shock. The noise level in the work environment is frequently loud.

The incumbent is subject to weekend work and 24-hour call out on a seven-day basis.

FLSA DETERMINATION: Non-exempt.