

CITY OF RIVERSIDE
HUMAN RESOURCES DEPARTMENT

CLASSIFICATION SPECIFICATION

TITLE: UTILITIES WATER MAINTENANCE MECHANIC

DEFINITION

Under general supervision, to perform skilled work in the installation, maintenance, and repair of drinking and irrigation water production, distribution and treatment facilities mechanical and electro-mechanical machinery and equipment; and to do related work as required.

REPORTS TO: Utilities Senior Water Control Systems Technician

SUPERVISION RECEIVED AND EXERCISED

Receives general supervision from the Utilities Senior Water Control Systems Technician. May exercise lead direction and/or training to lesser skilled workers, as assigned.

EXAMPLES OF DUTIES

Typical duties may include, but are not limited to, the following:

Install, replace, repair and adjust pumps, valves, pipes, flow meters, chlorinators, pumping equipment, pressure gauges and other appurtenant equipment of water production, distribution and treatment facilities.

Operate lathe, milling machine and other machine tools in repair of large pumps, variable speed drives, motors, chain drives, sewerage lift station and related equipment.

- Replace packing in pumps and valves and bearings in motors, pumps, natural gas engines and other equipment.
- Maintain and repair piping systems and to do related plumbing and pipefitting tasks.
- Lubricate equipment and check for malfunctions.
- Use gas and/or arc welding equipment to heat, cut, braze, and weld.
- Install pumps, variable speed drives and motors, timing devices and assist in installing telemetering electrical equipment.
- Perform general building maintenance and repair, including rough carpentry, pouring and finishing concrete, painting and related work.
- Use of a variety of hand and power hand tools, and may operate overhead traveling and truck cranes.
- Read plans and drawings pertaining to the water production, distribution and treatment facilities.
- May act as lead worker directing semi-skilled and unskilled employees on construction and maintenance work.
- Participate in related divisional cross-training efforts.
- Operate, keep clean and perform minor maintenance to assigned City vehicle.

QUALIFICATIONS

Knowledge of:

- Standard practices, procedures, tools, and materials used in the installation, maintenance, and repair of heavy plant equipment, pumps, motors, controllers, variable speed and chain drives and lift stations.
- General methods of related electrical, carpentry, plumbing, and pipefitting repairs and building maintenance and repair.
- 460 Volts Alternating Current 3-phase system and Programming Logic Control controls pertaining to operations of natural gas engine.
- Occupational hazards and safety precautions necessary in the work.
- Practices, procedures, tools, and equipment of machine and welding shops.
- City water system operating policies and procedures.

Ability to:

- Perform skilled mechanical maintenance and repair work independently.
- Understand and carry out oral and written instructions.
- Work from sketches, blueprints, and manufacturer's diagrams.
- Use and care for hand and power hand tools, machines, and equipment of the mechanical trades.
- Work overtime as required.

Education and Experience:

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

Education: Equivalent to the completion of the twelfth grade.

Experience: Three years of experience in the installation, repair, and maintenance of heavy mechanical equipment such as pumps, motors, vari-speed and chain drives, lift stations and all other related equipment.

MEDICAL CATEGORY: Group 2

NECESSARY SPECIAL REQUIREMENT

Possession of, or ability to obtain, an appropriate, valid class "C" California Motor Vehicle Operator's License.

May require possession of or the ability to obtain an appropriate valid California Commercial Motor Vehicle Operator's License based upon operational need and the duties assigned.

Possession of a Grade 2 Water Distribution Operator certificate issued by the California Department of Health Services (DHS). Must be able to obtain full certification requirements within eighteen (18) months of employment.

CAREER ADVANCEMENT OPPORTUNITIES

FROM: Utilities Water Maintenance Mechanic

TO: Utilities Senior Water Control Systems Technician