EL DORADO IRRIGATION DISTRICT
Class Specification

CLASS TITLE: Construction and Maintenance Worker I/
Construction and Maintenance Worker II

DEFINITION

Under supervision performs a variety of maintenance and construction tasks associated with the installation, repair and maintenance of water distribution and collection systems, canals and water conveyance system used for the operation of the hydroelectric power plant, irrigation ditches, and lakes; and operates light and moderately heavy power driven equipment.

DISTINGUISHING CHARACTERISTICS

Construction and Maintenance Worker I - This is the entry level class in the Construction and Maintenance Worker series. Positions in this class typically have little or no directly related work experience. The Construction and Maintenance Worker I class is distinguished from the II level by the performance of less than the full range of duties assigned to the II level. Incumbents work under immediate supervision while learning job tasks, progressing to general supervision as procedures and processes of assigned area of responsibility are learned.

Construction and Maintenance Worker II - This is the journey level class in the Construction and Maintenance Worker series and is distinguished from the I level by the assignment of the full range of duties. Employees at this level receive only occasional instruction or assistance as new, unusual or unique situations arise and are fully aware of the operating procedures and policies within the work unit. Positions in this class are flexibly staffed and are normally filled by advancement from the I level.

This class is distinguished from the Senior Construction and Maintenance Worker in that the latter performs the most difficult and responsible types of duties assigned to classes within this series and provides technical and functional supervision over assigned staff.

SUPERVISION RECEIVED AND EXERCISED

Construction and Maintenance Worker I

Receives immediate supervision from an assigned supervisor; may receive technical and functional supervision from a Senior Construction and Maintenance Worker.

Construction and Maintenance Worker II

Receives general supervision from an assigned supervisor; may receive technical and functional supervision from a Senior Construction and Maintenance Worker.

EXAMPLES OF ESSENTIAL DUTIES: The duties specified below are representative of the range of duties assigned to this class and are not intended to be an inclusive list.
All Assignments:

Excavates, inspects, installs, and repairs mains, lines and laterals; performs weed abatement as necessary to clear drains, channels, and ditches.

Excavates concrete, pavement, and dirt and set up concrete forms as necessary, and backfills open trenches and complete surfaces “to-finish” as appropriate; removes and applies paint and other coatings to utility facilities and equipment.

Performs saw cutting of asphalt for repairs made in roadways; paves roadways per Department of Transportation specifications; seals paved patches; performs road maintenance of access roads to District facilities.

Sets up traffic control including signs and barricades, and directs traffic around work sites.

Reads and interprets utility system maps and blueprints, including Underground Service Alert marking and notification.

Performs routine preventive maintenance on tools, equipment, and vehicles used in the work and stocks vehicles with adequate supply of tools and equipment needed to perform the work.

Assists with and coordinates with other divisions and departments for repair and maintenance activities, special projects, and capital improvement projects.

Responds to and assesses problems requiring immediate action; takes appropriate actions.

Assists with the ordering, purchasing and receipt of materials and equipment necessary to perform duties.

Interacts with and addresses customer issues.

May be required to fill in for Senior Construction and Maintenance Worker in his/her absence.

May use a computer to enter and retrieve information related to work assignments and record-keeping.

Builds and maintains positive working relationships with co-workers, other District employees, and the public using principles of good customer service.

Performs related duties as assigned.

When Assigned to Collection Systems:

Cleans and vacuums sewer lines and removes blockages using flusher trucks, CCTV van, vaporoooter, rodder trucks, hand rods, and high pressure water hoses.

Maintains lift and pumping stations, including ensuring all pumps are adequately working.
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Responds to and takes appropriate action to wastewater spills; reports to appropriate management staff and authorities.

Installs, repairs, upgrades and/or replaces manholes.

**When Assigned to Water Distribution Systems:**

Installs, taps, re-lines, disinfects, tests and connects water mains and appurtenances; repairs, disinfects, and tests broken water mains.

Installs, repairs, and maintains fire hydrants, valves, meters and meter vaults performs maintenance and repairs to recycled water distribution system.

Repairs and/or replaces water meters and related mechanisms, including disassembly, cleaning, inspection, replacement and testing of parts; prepares water service for use including installation of water meters and backflow prevention devices.

**When assigned to Hydro Canal and Ditch and Lake Systems:**

Patrols canals and ditches ensuring they are free from hazards including trees, debris, snow and ice; identifies sections of canals and ditches in need of repair and either makes repairs or reports repair needs to supervisor; operates snow equipment in the patrol, maintenance and repair of canals and ditches.

Performs dam inspections to ensure their integrity; makes repairs to dam surface.

Operates and maintains water conveyance system including wood and concrete flumes; monitors and regulates flows at diversion dam, spillways as well as flow levels in river, canals and tunnels; monitors and controls lake levels ensuring compliance with FERC and Fish and Game regulations.

Patrols canals and ditches to identify illegal water connections; reports to supervisor.

Monitors and operates remote controlled SCADA systems to monitor and control canal/lake systems per FERC license requirements; monitors and maintains flow levels throughout system; monitors and responds to alarms.

Performs flume construction and repairs; prepares wood forms and reinforcing steel for concrete pours.

Works safely under and around helicopters for the delivery of materials needed for construction and repair activities.

**QUALIFICATIONS**

- Construction and Maintenance Worker I
Knowledge of:

Skill/Ability to:
Learn to perform utility construction, maintenance and repair tasks associated with utility activities. Learn to operate a variety of hand tools and light and medium equipment safely. Learn to apply safe work practices including traffic control procedures, trench shoring, and confined space entry procedures. Learn to locate and repair leaks and breaks. Learn to troubleshoot water quality and pressure problems. Establish and maintain effective working relationships with those contacted in the course of work. Communicate clearly and concisely, both orally and in writing. On a continuous basis, know and understand operations, and observe safety rules; intermittently analyze problem equipment; identify and locate equipment; interpret work orders; remember equipment location; and explain jobs to others. Intermittently, sit while studying or preparing reports; bend, squat, climb, kneel and twist when performing installation/repair of equipment; perform simple and power grasping, pushing, pulling, and fine manipulation; and lift or carry weight of inspection, 50 pounds or less.

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

Experience:
One year of general construction experience desirable.

Education:
Equivalent to completion of the twelfth grade.

SPECIAL QUALIFICATIONS

License and Certificate:
Possession of, or ability to obtain, a valid California driver’s license at the time of appointment. Individuals who do not meet this requirement due to physical disability will be reviewed on a case-by-case basis.

Possession of a Class B California driver’s license.

Employees in this classification whose job duties require internet connectivity or the use of a District laptop and air card while on standby must provide and utilize, at their sole expense, a functionally reliable personal internet connection or District provided reliable air card with a District-provided laptop to facilitate District stand-by business.
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Construction and Maintenance Worker II

In addition to the qualifications for the Construction and Maintenance Worker I:

Knowledge of:
Methods and practices of installing, repairing and maintaining water distribution, collection, canal and ditch systems. Methods, techniques, tools and operating characteristics of mechanical equipment used in the construction and maintenance of utility systems. Pertinent local, State and Federal laws, ordinances, rules and regulations.

Skill/Ability to:
Independently perform installation, repair and maintenance duties associated with the District’s utility infrastructure and water conveyance system. Safely operate a variety of light to heavy construction equipment and hand tools. Read maps to locate pipelines and facilities. Recognize hazardous working conditions and take appropriate action. Address and resolve customer concerns. Locate and repair leaks and breaks. Troubleshoot water quality and pressure problems. Respond to emergency situations. Ensure a safe working environment in the absence of Senior Construction and Maintenance Worker.

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

Experience:
Two years of responsible experience similar to Construction and Maintenance Worker I with the El Dorado Irrigation District.

Education:
Equivalent to completion of the twelfth grade.

SPECIAL QUALIFICATIONS

License and Certificate:
Possession of, or ability to obtain, a valid California driver’s license at the time of appointment. Individuals who do not meet this requirement due to physical disability will be reviewed on a case-by-case basis.

Possession of a Class A California driver’s license.

Possession of a valid Water Distribution Operators Grade 1 Certificate issued by the State of California Department of Public Health if assigned to the Drinking Water Division.
Employees in this classification whose job duties require internet connectivity or the use of a District laptop and air card while on standby must provide and utilize, at their sole expense, a functionally reliable personal internet connection or District provided reliable air card with a District-provided laptop to facilitate District stand-by business.