

CAJON VALLEY UNION SCHOOL DISTRICT

CLASS TITLE: IRRIGATION TECHNICIAN

BASIC FUNCTION:

Under the direction of the Director-Facilities, Maintenance and Operations, perform skilled work in the installation, maintenance and repair of District sprinkler and irrigation systems and related parts, components and equipment; schedule and program automated base and remote irrigation controllers to assure proper and efficient irrigation coverage; assist other grounds maintenance personnel in the performance of a variety of duties as assigned.

REPRESENTATIVE DUTIES:

ESSENTIAL DUTIES:

Perform a variety of activities involved in the installation, maintenance and repair of District sprinkler and irrigation systems and related parts, components and equipment to assure proper irrigation of landscaped areas and athletic fields; maintain routine records related to work orders and assigned activities.

Determine watering schedules; check lawns to assure proper health and water distribution; turn water systems on and off as appropriate; set and adjust controllers and time clocks according to seasons, soil and lawn conditions, water distribution rates and established watering schedules.

Maintain, troubleshoot, repair and renovate new and existing sprinkler and irrigation systems including valves, sprinkler heads, controls, timing devices, water pumps and related components and equipment; dig holes and trenches; locate valves and trace wires; replace system parts and equipment as needed.

Inspect sprinkler systems to assure proper operating condition; inspect and repair water leaks; clean, adjust and repair sprinkler heads; test water systems for high and low pressure; make related repairs and adjustments; install low voltage wiring controls and fixtures such as hydraulic and electro-hydraulic and micro-electric controllers.

Measure, cut, thread and install pipes, tubing and a variety of irrigation system fixtures; maintain and repair water lines; excavate and determine appropriate depth of trenches; connect new systems to existing water supplies.

Operate a variety of equipment such as aerators, trenchers, cutters, drills, and a variety of hand and power tools; drive a vehicle to conduct work.

Estimate labor, material and equipment needed for assigned projects; monitor inventory levels of materials and equipment; research, order, receive and maintain inventory of materials and equipment as needed; research and purchase irrigation and related materials according to established procedures.

Perform various grounds maintenance projects and activities in the beautification of District grounds, athletic fields and landscaped areas as assigned; participate in soil testing, soil amending, tilling, and rolling for preparation and follow up of new turf (sod or seed) areas as assigned.

Communicate with District personnel to exchange information and resolve issues or concerns; provide assistance to contractors with projects involving irrigation systems; participate in training of grounds crew in the installation, maintenance, and repair of manual and automatic sprinkler systems and electric controllers.

OTHER DUTIES:

Perform related duties as assigned.

KNOWLEDGE AND ABILITIES:**KNOWLEDGE OF:**

Procedures, methods, techniques, materials, supplies, tools and equipment used in the installation, repair and maintenance of sprinkler and irrigation systems and related parts, components and equipment.

Basic principles of electricity and plumbing related to irrigation systems.

Operation of a variety of hand and power tools and heavy equipment related to irrigation.

Appropriate pipe sizes and maximum and minimum water pressure guidelines.

Oral and written communication skills.

Basic record-keeping techniques.

Operate and maintain a computer-based central irrigation system.

Shop math applicable to the irrigation trade.

Health and safety regulations.

Proper lifting techniques.

ABILITY TO:

Perform a variety of activities involved in the layout, installation, maintenance and repair of District sprinkler and irrigation systems and related parts, components and equipment.

Interpret and work from blueprints, plans, schematic drawings and sketches.

Troubleshoot, diagnose and resolve irrigation system malfunctions.

Inspect irrigation systems to assure proper operation.

Replace system parts and equipment as needed.

Operate a variety of hand and power tools and equipment.

Test and repair water leaks.

Meet schedules and time lines.

Plan and lay out work.

Observe health and safety regulations.

Communicate effectively both orally and in writing.

Work cooperatively with others.

Maintain routine records related to work performed.

EDUCATION AND EXPERIENCE:

Any combination equivalent to: high school graduation or equivalent and two years' experience in the design, installation, repair and maintenance of irrigation systems.

LICENSES AND OTHER REQUIREMENTS:

Valid California driver's license and the ability to qualify and maintain qualification, for District vehicle insurance coverage.

WORKING CONDITIONS:

ENVIRONMENT:

Outdoor work environment.
Seasonal heat and cold or adverse weather conditions.
Exposure to fumes, dust and odors.
Driving a vehicle to conduct work.

PHYSICAL DEMANDS:

Dexterity of hands and fingers to operate hand and power tools and equipment.
Sitting or standing for extended periods of time.
Walking over rough or uneven surfaces.
Seeing to read a variety of materials and perform irrigation repair duties.
Lifting, carrying, pushing or pulling heavy objects as assigned by position.
Bending at the waist, kneeling or crouching.
Reaching overhead, above the shoulders and horizontally.
Heavy physical labor.
Digging.

HAZARDS:

Exposure to chemicals and fumes.

CLEARANCES:

Criminal Justice Fingerprint/Background
Tuberculosis
Pre-placement Physical and Drug Screen