



Job Description

POSITION CODE: 664
Classified Group: CSEA
Salary Range: 28
Work Days: 261
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POSITION TITLE: Irrigation Technician

DEFINITION: Under general supervision, performs skilled work in the installation, maintenance, and repair of irrigation systems.

DIRECTLY RESPONSIBLE TO: Supervisor, Grounds Operation and Maintenance

SUPERVISION OVER: N/A

DUTIES AND RESPONSIBILITIES: (Any one position may not include all duties listed; the listed examples do not include all duties and responsibilities which may be found in positions within this classification.)

1. Designs, installs, modifies, and maintains irrigation systems by trenching, connecting to existing water supply, installing back-flow devices, connecting valves, lines and cross-connections, heads, valve boxes, controllers, booster pumps, and other components.
2. Pressure checks system and adjusts heads.
3. Repairs or replaces broken sprinkler lines, manual or automated valves, sprinkler heads, automatic controllers, booster pumps, flow switches, and other related equipment.
4. Performs related plumbing tasks and routine back fill of holes and trenches.
5. Determines source of water, and pressure, soil type, location of valves, and triangulation of sprinklers.
6. Develops material lists and pipe specifications.
7. Inspects and adjusts controllers for timing and duration of operation.
8. Programs solid state and other controls and clocks.
9. Repairs and installs plastic/copper/galvanized pipes and fittings.
10. Rebuilds sprinkler heads, control valves, time clocks, and other system components.
11. Reads and interprets blueprints and sketches.
12. Operates trenchers, post-hole diggers, back hoe, skid steers, jackhammers, light truck, and other equipment.
13. Initiates, modifies, and closes work orders in automated system.
14. Maintains inventory of parts and supplies.
15. Assembles, installs, operates, maintains, and repairs central system controllers.
16. Installs, programs, monitors, troubleshoots, and operates central control computer software systems.
17. Installs, operates, maintains, and repairs two wire and conventional control systems.
18. Installs, operates, maintains, and repairs drip irrigation systems.
19. Fabricates parts.
20. Flushes and cleans out lines.
21. Prepares sketches of system designs.
22. Terminates connection cables as needed.
23. Troubleshoots network connectivity of irrigation devices.
24. Performs related work as required.

QUALIFICATIONS:

Education and Experience:

Experience in the installation and repair of automatic sprinklers, time clocks, and controllers, preferably with large commercial systems, or experience in the plumbing trade.

Licenses and Certificates:

- Valid California Class C Driver's License issued by the California Department of Motor Vehicles within 30 days of hire or before driving any vehicle requiring the license

Knowledge, Skills, and Abilities:

- Knowledge of standard practices, methods, materials, tools, equipment, hazards and safety precautions used in the installation, maintenance, and repair of automatic sprinkler systems including controllers, time clocks, and valves
- Knowledge of sizes and specifications of pipes and fittings for proper volume and pressure
- Knowledge of irrigation requirements for various types of soil
- Knowledge of various aspects of pipe fitting as it applies to sprinkler installations
- Knowledge of safety related use of equipment, primers, and glues
- Knowledge of basic mechanical, electrical, plumbing, and hydraulic principles
- Knowledge and skill in use of computers and assorted software programs
- Ability to read, understand, and apply conversion charts for water pressure and water flow
- Ability to read and understand technical manuals, wiring diagrams, blueprints, and charts
- Ability to apply math concepts and compute accumulated loss/friction
- Ability to analyze and diagnose system malfunctions
- Ability to use hand and power tools and other equipment associated with sprinkler systems
- Ability to establish and maintain effective relationships with those contacted in the course of work
- Ability to understand and follow verbal and written instructions
- Ability to communicate effectively both verbally and in writing with administrators, staff, students, and the community
- Ability to maintain consistent, punctual and regular attendance

WORKING CONDITIONS:

Work Environment:

- Indoor and outdoor work environment
- Seasonal hot/cold weather
- Wet and/or humid conditions (non-weather)
- Moderate noise from equipment
- Drive a vehicle to conduct work

Typical Physical Characteristics: (with or without the use of aids; consideration will be given to reasonable accommodation)

- Inspect documents and other written materials with fine print
- Move about schools and facilities to conduct work, including climbing, crawling, bending, stooping, working on knees, and remaining in a stationary position for extended periods of time
- Communicate to exchange information in person, with small groups, and/or on the telephone
- Operate tools and equipment requiring repetitive hand movement and fine coordination

Hazards:

- Work near moving mechanical parts
- Work in high, precarious places
- Exposure to fumes, airborne particles, and toxic or caustic chemicals including fertilizers, herbicides, fungicides, and pesticides
- Exposure to vibration
- Risk of electrical shock

Other Characteristics:

- Willingness to respond to emergency calls at night or on weekends

This job description is not a complete statement of essential functions and responsibilities. The district retains the discretion to add or change typical duties of a position at any time.

Board Approved:	8/9/2017
Adopted:	6/11/1974
Revised:	8/23/1977
Revised:	6/29/1982
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Revised:	4/11/2000
Revised:	1/4/2017