



Office of Human Resources  
Irrigation Technician - CJ3318  
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### General Statement of Duties

Performs journey-level trades work to install, maintain, and inspect manual, semi-automatic, and automatic irrigation systems and fountains to ensure efficiency and water conservation at city facilities and properties, including city parks, fields, open spaces, green areas, or golf courses.

### Distinguishing Characteristics

This class is distinguished from other trades areas by the specialty of the work and minimum qualifications.

### Essential Duties

Installs, maintains, and repairs irrigation systems include wiring, controllers and valves, pressure testing, trenching and pulling pipe, installing heads, rotors, valves, main and lateral lines, drip lines, bubblers, and other related equipment and tools to ensure efficient operation while maintaining water conservation practices.

Conducts irrigation audits and inspects and tests equipment for malfunction or defects. Leads irrigation projects to install, upgrade, or repair equipment and determines the resources needed for the job. Provides cost estimates or quotes for projects.

Performs skilled level repairs to interactive and decorative fountains. Performs pump and valve changing, control programming, and water quality upkeep.

Performs routine maintenance, including seasonal maintenance for winterizing the systems and starting them up in spring.

Diagnoses, troubleshoots, and repairs computerized and non-computerized equipment and performs emergency repairs.

Maintains documentation and logs of repairs and equipment maintenance. Orders and maintains parts inventory.

Operates and maintains lightweight and heavy equipment and vehicles in connection with assigned duties and responsibilities.

Uses schematics, blueprints, sketches, or oral instructions to sketch, plan, and design the installation, maintenance, and repair of machines, equipment, and facility structures.

Observes all common safety practices. Ensures work areas are cleaned.

Collaborates with other trades workers in the repair, maintenance, and servicing of equipment and facilities, which may include journey-level electrician, plumber, HVAC, or similar construction trades specialties.

By position, trains lower level technical or labor positions or new staff.

By position, may be required to be on-call to address emergent needs.

By position, participates in snow removal duties.

By position, responds to after-hours calls or emergency calls outside of normal scheduled or business hours.

Performs other related duties as assigned or requested.

Any one position may not include all of the duties listed. However, the allocation of positions will be determined by the amount of time spent in performing the essential duties listed above.

### **Competencies**

Interpersonal Skills - Shows understanding, friendliness, courtesy, tact, empathy, cooperation, concern, and politeness to others and relates well to different people from varied backgrounds and different situations.

Oral Communication - Expresses information to individuals or groups effectively; taking into account the audience and nature of the information; makes clear and convincing oral presentations; listens to others, attends to nonverbal cues and responds appropriately.

Reading - Understands and interprets written material, including technical material, rules, regulations, instructions, reports, charts, graphs or tables; applies what is learned from written material to specific situations.

Self Management - Sets well-defined and realistic personal goals; displays a high level of initiative effort, and commitment towards completing assignments in a timely manner; works with minimal supervision; is motivated to achieve; demonstrates responsible behavior.

Technical Problem Solving – Troubleshoots, diagnoses, analyzes, and identifies systems malfunctions to determine the source and cause of the problem.

Written Communication – Composes, reviews, edits, and issues written materials for diverse audiences and communicates purpose in a succinct and organized manner that is appropriate for context, time, and place.

### **Knowledge & Skills**

Knowledge of standard practices, methods, materials, and tools used in construction, maintenance, and repair work.

Knowledge of safety hazards and necessary safety precautions sufficient to be able to establish a safe work environment for self and others.

Knowledge of landscape maintenance sufficient to be able to prepare and maintain systems.

Skill in operating hand and power tools and equipment common to several maintenance and repair trades.

### **Level of Supervision Exercised**

By position, performs lead work.

### **Education Requirement**

Graduation from high school or the possession of a GED, HiSET or TASC Certificate.

### **Experience Requirement**

One (1) year of experience in maintaining and repairing commercial, agricultural, or related irrigation systems.

### **Education & Experience Equivalency**

A combination of appropriate education and experience may be substituted for the minimum education and experience requirements.

**Licensure & Certification**

This job requires driving. Requires a valid Driver's License at the time of application.

By position, requires Landscape Industry Certified Technician by the end of probation.

By position, requires a Certified Irrigation Technician by the end of probation.

Licenses and certifications must be kept current as a condition of employment.

**Working Environment**

Atmospheric Conditions: conditions that affect the skin, eyes or respiratory system.

Potential exposure to cold temperature, cold enough to cause bodily discomfort

Potential exposure to cold weather conditions (indoor/outdoor)

Potential exposure to conditions that affect the skin or respiratory system.

Potential exposure to dust

Potential exposure to extreme temperature changes

Potential exposure to hazardous conditions where there is a danger to life, body, and/or health

Potential exposure to hazardous/toxic chemicals

Potential exposure to hazards from electro/mechanical/power equipment.

Potential exposure to hazards of steam and heat

Potential exposure to odorous chemicals

Potential exposure to toxic chemicals.

Potential exposure to unpleasant elements (accidents, injuries, and illness).

Extreme cold conditions

Handles emergency or crisis situations

Noise sufficient to cause distraction or possible hearing loss

Personal Safety: aware of surroundings, people, and events

Pressure due to multiple calls and inquiries

Subject to burns and cuts

Subject to electrical and radiant energy hazards

Subject to hazards of flammable or explosive gases

Subject to injury from moving parts of equipment or vehicles

Subject to vibrations and strain on the body to cause bodily harm if endured daily

Temperature Changes: variations in temperature from hot too cold.

Potential exposure to heat temperatures, hot enough to cause bodily discomfort.

Potential exposure to humid conditions with high moisture content to cause bodily reactions.

Wet: frequent contact with water or other liquid.

**Level of Physical Demand**

3-Medium (20-50 lbs.)

**Physical Demands**

(Physical Demands are a general guide and specific positions will vary based on working conditions, locations, and agency/department needs).

Agility: Ability to move quickly and easily.

Balancing: Maintaining equilibrium.

Carrying: Transporting or moving an object.

Climbing: Ascending or descending an object or ladder.

Color vision: Ability to distinguish and identify different colors.

Crawling: Moving about in a low or crouched position.  
Crouching: Positioning body downward and forward.  
Depth Perception: Ability to judge distances and space relationships.  
Eye/Hand/Foot Coordination: Performing work through using two or more body parts or other devices.  
Feeling: Perceiving attributes of objects by means of skin receptors, communication, or otherwise.  
Field of Vision: Ability to sharply detect or perceive objects peripherally.  
Fine Dexterity: Sufficient coordination to operate a vehicle and manipulate objects.  
Fingering: Picking and pinching, through use of fingers or otherwise.  
Handling: Seizing, holding, grasping, through use of hands, fingers, or other means.  
Hazards: Conditions where there is danger to life, body and/or health.  
Hearing: Perceiving and comprehending the nature and direction of sounds.  
Hearing/Talking: Perceiving and comprehending the nature and direction of sounds/ability to communicate ideas.  
Hiking: Moving about on uneven surfaces, and at high altitude.  
Jogging: Ability to transport oneself over a two-mile distance at an efficient speed.  
Kneeling: Assuming a lowered position.  
Lifting: Moving objects weighing no more than 50 pounds from one level to another.  
Neck Flexion: Perceiving objects located above or below.  
Oral Comprehension: Ability to discern the meaning of oral speech.  
Physical Strength: Exerts force to transport objects of 50 pounds or more.  
Pulling: Exerting force upon an object so that it is moving to the person.  
Pushing: Exerting force upon an object so that it moves away from the person.  
Reaching: Extending the hands and arms or other device in any direction.  
Repetitive motions: Making frequent or continuous movements.  
Running: Quickly traverse a distance of over 50 yards.  
Running: Quickly traverse a distance of under 50 yards.  
Running: Ability to quickly pursue an animal for 60 seconds.  
Sitting: Remaining in a stationary position.  
Stamina: Ability to work over long periods of time without tiring.  
Standing: Remaining in a stationary position.  
Stooping: Positioning oneself low to the ground.  
Talking: Communicating ideas or exchanging information.  
Vision: Ability to perceive animal behavior, comprehend signs, and detect color.  
Vision Far Acuity: Ability to perceive or detect objects clearly at 20 feet or more.  
Vision Near Acuity: Ability to perceive or detect objects at 20 inches or less.  
Walking: Ability to move or traverse from one location to another.  
Written Comprehension: Ability to discern the meaning of written words.

### Background Check Requirement

Criminal Check  
Employment Verification  
Motor Vehicle Record  
By position, License/Certification

### Assessment Requirement

None

### Probation Period

Six (6) months.

**Class Detail**

**Pay Grade: NE-11**

**FLSA Code: N**

**Established Date: 7/4/2021**

**Established By: BM**

**Revised Date:**

**Revised By:**

**Class History:**