



Office of Human Resources
Fire Sprinkler Technician - CJ3035
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General Statement of Duties

Performs journey level skilled trades work to install, maintain, repair, inspect, and troubleshoot fire sprinkler piping, valves, accessories, and other related systems and equipment for City facilities.

Distinguishing Characteristics

This is a unique classification in the skilled trades and is distinguished from other trades classes due to the specialized training and experience required for each classification.

Level of Supervision Exercised

None

Essential Duties

Install, maintain, and repair fire protection and sprinkler systems, including pipes and fixtures and related systems and equipment, nitrogen generators, air compressors, valves and related trim, and pressure and flow switches.

Operate and test pump controllers.

Cut, thread and groove all types of piping.

Determine the amount of material and type of equipment needed

Inspect, test, and perform maintenance of installed diesel and electric fire pumps, and related pipe systems and pipelines.

Troubleshoot systems that are not working.

Replace worn parts.

Prepares working sketches and works from blueprints, schematics, and written or verbal instructions.

Prioritizes daily work orders and repairs.

Estimates materials, labor, and equipment costs.

Maintains records and prepares daily activity reports and follow applicable building codes.

Assists in the maintenance and repair work in a variety of skilled trades areas.

By position, perform snow removal duties.

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

Performs other related duties as assigned.

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

Arithmetic – Performs computations such as addition, subtraction, multiplication, and division correctly using whole numbers, fractions, decimals, and percentages.

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 materials, 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 Competence – Uses knowledge that is acquired through formal training or extensive on-the-job experience to perform one's job; works with, understands, and evaluates technical information related to the job; advises others on technical issues.

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

Knowledge & Skills

Knowledge of plumbing sufficient to be able to identify appropriate construction, installation, and alteration of new or existing plumbing, and/or the operation of related systems.

Knowledge of wet and dry fire protection systems sufficient to be able to maintain in proper working condition.

Knowledge of standard practices, methods, tools and materials used in several trades areas sufficient to be able to make minor repairs to facilities and equipment.

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

Skill in using hand and power tools and equipment common to the plumbing trade.

Skill in reading and interpreting work orders, plans, sketches, blue prints, and/or schematics.

Skill in estimating the cost of materials and equipment.

Skill in preparing working sketches.

Skill in maintaining, testing, and installing devices for the prevention of backflow, back siphonages, or cross connection.

Education Requirement

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

Experience Requirement

Completion of a Sprinkler Fitter apprenticeship program, or four (4) years of documented experience as an apprentice.

Education & Experience Equivalency

No substitution of experience for education is permitted.

Licensure & Certification

By position, possession of a Colorado Commercial Driver's License (CDL "B") with appropriate endorsements by the end of probation.

Must possess a Fire Sprinkler System Installer license from Denver Fire Department.

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 cement dust

Potential exposure to chemicals, gas and low-level radiation

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 anesthetic agents, body fluids, and bio-wastes

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 heat temperatures, hot enough to cause bodily discomfort

Potential exposure to hot and humid work environment

Potential exposure to housekeeping/cleaning agents/chemicals.

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

Potential exposure to odorous chemicals

Potential exposure to odors in animal areas

Potential exposure to odors in kitchen and animal areas

Potential exposure to temperature changes: variations in temperature from hot too cold

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 precarious or high locations

Subject to pressure for multiple calls, inquiries, and interruptions

Subject to varying and unpredictable situations

Subject to traffic, roadways, and pedestrians

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

Temperature Changes: variations in temperature from hot too cold.

Temperature Changes: variations in temperatures from hot too cold when works in field

Wet: frequent contact with water or other liquid.
Wet: frequent contact with water, liquid, chemicals, or sanitary sewage
Works in confined, uncomfortable or awkward locations
Works in precarious or high locations.

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: bends, stretches, twists, or reaches out with the body, arms or legs.
Balancing: maintaining body equilibrium to prevent falling over.
Carrying: transporting an object, usually by hand, arm, or shoulder.
Climbing/Balancing: climbing walls, fences and other obstacles and balancing.
Climbing: ascending or descending objects usually with hands/feet.
Climbing: ascending or descending objects.
Color vision: ability to distinguish and identify different colors.
Crawling: moving about on hands and knees or hands and feet.
Crouching: bending body downward and forward by bending legs.
Depth Perception: ability to judge distances and space relationships.
Endurance: exert physical efforts restrain animals for a substantial period.
Eye/Hand/Foot Coordination: performing work through the use of two or more.
Feeling: perceiving attributes of objects by means of skin receptors.
Feeling: perceiving attributes of objects by means of spoken word.
Field of Vision: ability to adjust vision to bring objects into focus.
Field of Vision: ability to see peripherally.
Fine Dexterity: coordinator eye-hand to operate a vehicle, reach, hold, grasp and turn objects
Fingering: picking, pinching, or otherwise working with fingers.
Handling: seizing, holding, grasping, or otherwise working with hand(s).
Handling: seizing, holding, grasping, or otherwise working with fingers.
Hazards: conditions where there is danger to life, body and/or health.
Hearing/Talking: hear and determine direction of sound.
Hearing: perceiving the nature of sound by the ear.
Kneeling: bending legs to come to rest on one or both knees.
Lifting: raising or lowering objects weighing no more than 50 pounds, from one level to another.
Mathematical reasoning:
Memorization:
Mental Demands: mathematical reasoning, memorization, oral comprehension, spatial orientation, and written comprehension.
Neck Flexion: moving neck upward/downward.
Oral comprehension:
Physical Strength: exerts maximum muscle force to lift, push, pull or carrying objects and performs laboring work.
Pulling: exerting force upon an object so that it is moving to the person.
Pushing: exerting force upon an object so that it is moving away from the person.
Reaching: extending the hand(s) and arms(s) in any direction.
Repetitive motions: making frequent movements with a part of the body.
Sitting: remaining in the normal seated position.
Stamina: exerts oneself physically over long periods of time without tiring. (which may include performing repetitive tasks such as hammering or lifting objects).
Standing: remaining on one's feet in an upward position.

Stooping: bending the body by bending the spine at the waist.
Talking: expressing or exchanging ideas by means of spoken words.
Vision Far Acuity: ability to see clearly at 20 feet or more.
Vision Near Acuity: ability to see clearly at 20 inches or less.
Vision: to observe animal behavior, read signs, and reading colors.
Walking: moving about on foot on uneven surfaces.
Walking: moving about on foot.
Written Comprehension.

Background Check Requirement

Criminal Check
Employment Verification

Assessment Requirement

None

Probation Period

Six (6) months.

Class Detail

Pay Grade: J-621
FLSA Code: N
Established Date: 9/21/2018
Established By: LS
Revised Date:
Revised By:
Class History: