



February 2022
FLSA: NON-EXEMPT

COLLECTION/MAINTENANCE UTILITY WORKER I

DEFINITION

Under direct and general supervision, performs a broad range of semi-skilled duties associated with the completion of Closed-Circuit Television (CCTV) 3 year inspection, operation, maintenance and repair of collections system, wastewater and reclamation facilities; inspects, maintains, and repairs lift stations; performs maintenance work at the District's wastewater treatment and reclamation facility; and performs related work as required.

SUPERVISION RECEIVED AND EXERCISED

Receives direct and general supervision from the Collections and Maintenance Superintendents and Collections and Maintenance Lead Workers. No supervision of staff is exercised.

CLASS CHARACTERISTICS

Collection/Maintenance Worker I:

This is the entry-level class in the Maintenance and Collection department. Initially under close supervision, incumbents with basic maintenance experience learn District systems, operations, practices, and procedures. As experience is gained, assignments become more varied and are performed with greater independence. Assignments may vary with the skill and training of the incumbent.

EXAMPLES OF ESSENTIAL FUNCTIONS (Illustrative only)

Management reserves the rights to add, modify, change, or rescind the work assignments of different positions and to make reasonable accommodations so that qualified employees can perform the essential functions of the job.

When performing collections system assignment:

- Completion of 5-year CCTV inspection plan.
- Assists with maintenance and repairs, in a safe and sanitary manner, sewer lines, manholes, pressure hoses, mains, parts, and other related facilities and equipment to ensure compliance with established codes; methods include smoke testing, CCTV work, packing, and sealing.
- Assists with inspections and tests of underground wastewater collection pipes, lateral connections, storm drain interceptors, and associated appurtenances using closed-circuit television devices and other specialized testing equipment to locate leaks, breaks, infiltration and the buildup of dirt, debris, roots, and other materials on a scheduled preventative maintenance basis.
- Tests and monitors manholes for dangerous gases and uses proper safety precautions when entering underground areas; builds and cleans out manholes and other collection facilities.

- Provides installation, maintenance, and repair of wastewater mains and laterals; digs up and repairs damaged sections of pipe; cuts, installs, threads, and assembles new pipe.
- Assists in the maintenance of sewer lines utilizes a combination hydro-cleaning/vacuuming truck on a scheduled or emergency basis.
- Operates specialized vehicles and a variety of light, medium, and heavy equipment including forklifts, aerial lifts, vibrators, jackhammers, tampers, and cutters appropriate for the construction, maintenance, and repair of the District's water/wastewater infrastructure system.
- Assists with the setup of traffic control and safety equipment when using vehicles on a street or other roadway; and uses safety equipment and observes all safety procedures as specified by the District.

When performing plant maintenance assignment:

- Maintains, installs, inspects and repairs piping systems of Polyvinyl Chloride (PVC), black or cast iron, stainless steel, and copper tubing; install, removes and repairs larger pipes and valves; modify existing piping system and welded steel pipes, such as nozzles and saddles; taps, cuts and threads pipes.
- Assists in the overhaul, maintenance, installation, inspection, adjusts and repairs a wide variety of pneumatic systems and compressors; repairs a variety of pumps, such as centrifugal, positive displacement, and screw; services, lubricates and adjusts chemical feed and processing equipment.
- Follows proper Occupational Safety and Health Act (OSHA) guidelines, safety and personal protective equipment practices, precautions and procedures, such as confined space entry and using correct lockout and tag out procedures

When performing all assignments:

- Notifies supervisor of the need for repair or additional maintenance as found during routine inspection and cleaning activities; and prepares work orders or notes service requirements.
- Performs routine mechanical maintenance activities on automotive vehicles and portable equipment.
- Assists with the inspection, repairs, cleaning and rebuilding of pumps, compressors and motors including replacement of bearings, shafts, sleeves, and seals.
- Uses Computerized Maintenance Management Software (CMMS) and maintains accurate records of completed tasks.
- Performs basic preventative maintenance on equipment including pumps, generators, and devices.
- Builds and maintains positive working relationships with co-workers, other District employees, and the public. Being a team player is essential and willingness to learn and share knowledge is paramount.
- Maintains work areas in a clean and orderly condition, including securing equipment at the close of the workday.
- May assist other collections, operations and mechanical maintenance crews in emergency or relief situations.
- Operates standard office equipment, including job-related computer hardware and software applications, facsimile equipment, and multi-line telephones; may operate other department-specific equipment.
- Performs basic building and grounds maintenance.
- Performs other duties as assigned.

QUALIFICATIONS

Knowledge of:

- Principles, practices, tools, equipment, and supplies required to maintain and repair wastewater collection systems, including underground wastewater collection lines and pump/lift stations.
- Basic principles and practices of mobile equipment servicing and repair.
- Basic safety practices related to the work, including confined space entry.
- Basic mechanical, electrical and hydraulic principles.
- Basic operational and maintenance practices of electrical motors, pumps, and circuitry.

- Electrical diagnostic tools and predictive equipment such as: multimeters, ammeters, vibration meters, etc.
- State and Federal water quality and residuals disposal standards.
- Basic safety practices related to the work, including confined space entry.
- Applicable Federal and State laws; District and Division regulations, codes, policies, and procedures.
- Record keeping principles and procedures.
- Computer applications related to the work.
- Shop arithmetic.
- Techniques for providing a high level of customer service to public and District staff, in person and over the telephone.

Ability to:

- Perform semi-skilled work related to the installation, inspection, maintenance, and repair, of underground wastewater collection lines, pump, and lift stations.
- Safely use hand and power tools related to the work and drive and operate trucks and hydrovactor equipment.
- Read meters and gauges efficiently and record accurate consumption information.
- Interpret and explain regulations, policies and procedures.
- Read maps, manuals and specifications.
- Perform process adjustments based on technical decisions to maintain process performance criteria.
- Paint all types of surfaces and equipment.
- Perform routine housekeeping.
- Wear personal protective equipment.
- Perform manual and strenuous physical labor and heavy lifting.
- Wear a negative fit respirator and self-contained breathing apparatus and demonstrate that the employee can obtain proper face piece-to-face fit in accordance with the manufacturer's fitting instructions, in accordance with CFR 1910.134 (a) 5 (I).
- Perform work in a confined space, following required confined space entry procedures.
- Work overtime, weekends, holidays, and shift work assigned.
- Promote a safe work environment with team members.
- Follow directions from a supervisor and accept constructive criticism.
- Maintain clear and accurate records.
- Make accurate arithmetic computations.
- Organize and prioritize a variety of projects and multiple tasks in an effective and timely manner; organize own work, set priorities, and meet critical time deadlines.
- Identify and take appropriate action when operating problems occur.
- Maintain attention to detail and accuracy.
- Prepare clear and concise reports, correspondence, policies, procedures, and other written materials.
- Operate modern office equipment including computer equipment and specialized software applications programs.
- Use English effectively to communicate in person, over the telephone, and in writing.
- Use tact, initiative, prudence, and independent judgment within general policy and legal guidelines.
- Establish and maintain effective working relationships with those contacted in the course of the work.

EDUCATION AND EXPERIENCE:

Any combination of training and experience which would provide the required knowledge, skills, and abilities is qualifying. A typical way to obtain the required qualifications would be:

Maintenance Worker I: Equivalent to the completion of the twelfth (12th) grade.

Maintenance Worker I: One (1) year of mechanical maintenance experience. Experience in water/wastewater treatment facilities is desired.

Licenses and Certifications:

Collection/Maintenance Worker I

- Possession of, or ability to obtain within 18 months of hire, a Class B driver's license. Possession of a Mechanical Technologist I and Collections System Maintenance I Certificate issued by the California Water Environment Association is desirable. If candidate does not possess Mechanical Technologist I or Collections System Maintenance I certificate, he/she must be able to obtain within 24 months of hire.
- Possession of a Cardiopulmonary Resuscitation and Emergency Cardiac Care Provider certificate and First Aid certificate is required within one (1) year of employment.
- Confined space awareness training within one (1) year of employment.
- 8-hour HAZWOPER awareness certificate within one (1) year of employment.
- Must pass a respiratory fit test within 2 months of employment and adhere to District facial hair requirements.

DISASTER SERVICE WORKER

All Carmel Area Wastewater District employees are, by State and Federal law, Disaster Service Workers. The roles and responsibilities for Disaster Service Workers are authorized by the California Emergency Services Act and are defined in the California Labor Code. In the event of a declaration of emergency, any employee of the District may be assigned to perform activities which promote the protection of public health and safety or the preservation of lives and property. Such assignments may require service at locations, times, and under conditions that are significantly different than the normal work assignments and may continue into the recovery phase of the emergency. If a "Local Emergency" is declared during the employee's shift, employees will be expected to remain at work to respond to the emergency needs of the community. If a "Local Emergency" is declared outside of the employee's shift, employees must make every effort to contact their direct supervisor or department head to obtain reporting instructions as Disaster Service Workers.

The physical demands and work environment described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

ENVIRONMENTAL ELEMENTS

Employee is frequently exposed to outside weather conditions.

Employee is occasionally exposed to high, precarious places.

Employee is exposed to confined spaces; fumes or airborne particles; toxic or caustic chemicals.

Employee is exposed to unpleasant smells and odors.

Employee is exposed to moderate cold; moderate heat.

Employee is exposed to risk of electrical shock or mechanical hazards.

Employees in this classification may perform duties that involve a potential risk of exposure to blood-borne pathogens.

The noise level in the work environment is usually loud.

Employee, as needed, works indoors, office setting, climate controlled.

PHYSICAL DEMANDS

STANDING

Average Frequency: 2 ½ to 4 hours.

Duration: Seconds to less than 15 minutes at a time.

Maximum Frequency: Average frequency is consistent.

Duration: N/A

Surfaces: Office – carpet, tile; field/plant – concrete, asphalt, dirt, gravel, mud, metal grating, grass, sloped terrain.

Description: Performs while utilizing a variety of basic hand or power tools, utilizing a shovel, pick or digging bar, sledgehammer, grinders, chop saw, presses, skill saw, operating a jackhammer, performing a variety of semi-skilled work including carpentry, electrical, plumbing, painting, landscaping, custodial, and heating.

WALKING

Average Frequency: 2 ½ to 4 hours.

Duration: Seconds to less than 15 minutes at a time.

Maximum Frequency: Average frequency is consistent.

Duration: N/A

Surfaces: Office – carpet, tile; field/plant – concrete, asphalt, dirt, gravel, mud, metal grating, grass, sloped terrain.

Description: Performs while relocating tools, equipment, parts, walking within the plant, to and from field sites, operating a jackhammer, shoveling, inspecting equipment, painting, vacuuming, sweeping, mopping, maintaining landscaping and during traffic safety setups.

SITTING

Average Frequency: Up to 2 hours.

Duration: Less than ½ hour to 1 hour at a time.

Maximum Frequency: Up to 7 hours.

Duration: Up to 1 hour at a time.

Surfaces: Cushioned vehicle seat, office chair.

Description: Performs while working at a desk station, during trainings, operating equipment including a forklift, golf cart, tractor, backhoe, pickup truck.

KNEELING/CROUCHING/SQUATTING

Average Frequency: 10 to 20 minutes.

Duration: Seconds to less than 5 minutes at a time.

Maximum Frequency: Up to 2 hours.

Duration: Seconds to less than 15 minutes at a time.

Surfaces: Office – carpet, tile; field/plant – concrete, asphalt, dirt, gravel, mud, metal grating, sloped terrain.

Description: Performs while repairing and servicing equipment, retrieving and setting items on and off lower shelves or the ground, retrieving trash, cleaning toilets, urinals, cleaning windows, polishing furniture, painting in conjunction with utilizing rollers or brushes, performing carpentry duties, electrical, plumbing, greasing or lubing equipment, remodeling and assembling cabinets, counters, drawers, sanding, texturing and repairing walls, repairing and installing building hardware including door handles, accessing pipes, fixtures, valves, clearing clogged plumbing fixtures.

CRAWLING

Average Frequency: 10 to 20 minutes.

Duration: Seconds to less than 5 minutes at a time.

Maximum Frequency: Up to 2 hours.

Duration: Seconds to less than 5 minutes at a time.

Surfaces: Office – carpet, tile; field/plant – concrete, asphalt, dirt, gravel, mud, metal grating, sloped terrain.

Description: Performs while accessing restricted areas including plumbing/pipes, inspecting equipment, performing carpentry tasks, accessing mechanical equipment or during plumbing tasks.

LAYING ON BACK/STOMACH

Average Frequency: 5 to 10 minutes.

Duration: Seconds to less than 2 minutes at a time.

Maximum Frequency: Up to 2 hours.

Duration: Seconds to less than 5 minutes at a time.

Surfaces: Office – carpet, tile; field/plant – concrete, asphalt, dirt, gravel, mud, metal grating, sloped terrain.

Description: Performs while inspecting and repairing equipment including plumbing and mechanical.

CLIMBING/BALANCING

Average Frequency: 4 to 10 times.

Duration: Seconds to less than 2 minutes at a time.

Maximum Frequency: 10 to 20 times.

Duration: Seconds to less than 2 minutes at a time.

Surfaces: Ladder or stair steps, vehicle floorboards.

Description: Performs while ascending or descending extension ladders up to 40 feet, stepladders 10 to 12 feet, stair steps at plant sites, accessing vehicle cab 1 to 3 steps.

REACHING

Above Shoulder Level:

Average Frequency: 15 to 20 minutes.

Duration: Seconds to less than 5 minutes at a time.

Maximum Frequency: Up to 2 hours.

Duration: Seconds to less than 5 minutes at a time.

Description: Performs while repairing and servicing equipment including plumbing in conjunction with utilizing a variety of hand or power tools, replacing lamps or lights, retrieving equipment over railing, painting in conjunction with utilizing rollers or brushes, polishing, carpentry work including assembling cabinets, counters, sanding, texturing or repairing walls. Unilateral or bilateral upper extremities from a less than full-to-full extensions at each occurrence.

Between Waist and Shoulder Level:

Average Frequency: 6 to 7 hours.

Duration: Seconds to less than ½ hour at a time.

Maximum Frequency: Average frequency is consistent.

Duration: N/A

Description: Performs while operating a variety of equipment including forklift, truck, golf cart, tractor, backhoe, man lift in conjunction with maneuvering levers and a steering wheel, retrieving and relocating tools, supplies, equipment, inspecting, troubleshooting and repairing equipment, utilizing a variety of basic or power tools including a shovel, pick, digging bar, sledgehammer, grinders, chop saw, presses, skill saw, operating a jackhammer, maintaining plumbing, painting in conjunction with utilizing brushes or rollers, performing custodial tasks including sweeping, vacuuming, utilizing a squeegee, shampooer, extractor to clean floors, performing a variety of carpentry work including remodeling and assembling of cabinets, counters, drawers, renovating, relocating, altering workstations, sanding, texturing and repairing walls, repairing and installing building hardware including door handles, repairing plumbing systems, during traffic setup. Unilateral or bilateral upper extremities from a less than full-to-full extensions on each occurrence.

Below Waist Level:

Average Frequency: 10 to 20 minutes.

Duration: Seconds to less than 5 minutes at a time.

Maximum Frequency: Up to 2 hours.

Duration: Seconds to less than 15 minutes at a time.

Description: Performs while repairing and servicing equipment, retrieving or setting items on and off lower shelves or the ground, painting in conjunction with utilizing rollers or brushes, landscaping including utilizing basic hand tools to repair irrigation systems, custodial tasks including polishing furniture, utilizing a squeegee to clean windows, cleaning toilets, urinals, wiping walls, retrieving trash or debris, lubricating equipment, installing water meters, performing a variety of carpentry work including remodeling and assembling cabinets,

counters, drawers, sanding, texturing and repairing walls, installing building hardware, marking utilities. Unilateral or bilateral upper extremities from a less than full-to-full extensions on each occurrence.

PUSHING/PULLING

Average Frequency: 1 to 2 hours.

Duration: Seconds to less than 15 minutes at a time.

Maximum Frequency: Up to 4 hours.

Duration: Seconds to less than 15 minutes at a time.

Description: Performs while utilizing a shovel, digging bar or pick while digging, operating a jackhammer a combination of pushing, pulling, partial lifting and guiding, utilizing wrenches to remove and secure bolts, pry bar to secure equipment, dollies or carts to relocate supplies, pallet jacks, relocating hoses, utilizing grinders, electric skill saws, chop saws, a press, drills, chain saw, utilizing a metal hook to remove or replace a manhole lid, mopping, sweeping, vacuuming, utilizing a squeegee to clean windows or mirrors, utilizing rollers or brushes to paint, utilizing saws, installing cabinetry. Unilateral or bilateral arm use.

TWISTING/ROTATING

Waist:

Average Frequency: 1 to 2 hours.

Duration: Seconds to less than 5 minutes at a time.

Maximum Frequency: 2 to 3 hours.

Duration: Seconds to less than 5 minutes at a time.

Description: Performs while accessing restricted areas, equipment, inspecting equipment, shoveling, repairing, servicing and maintaining equipment in conjunction with utilizing a variety of tools, driving. The motion is from center to right back to center or center to left back to center up to 20-degrees.

Neck:

Average Frequency: 3 to 4 hours.

Duration: Seconds to less than 5 minutes at a time.

Maximum Frequency: 4 to 5 hours.

Duration: Seconds to less than 5 minutes at a time.

Description: Performs while aiding visually, operating equipment including a forklift, truck, golf cart, tractors, backhoes, man lifts, servicing and repairing and maintaining a variety of equipment including plumbing, electrical, while painting, heating and ventilation, custodial tasks, performing carpentry duties, during normal body mechanics. The motion is from center to right back to center or center to left back to center up to 45-degrees.

Wrists:

Average Frequency: 1 to 2 hours.

Duration: Seconds to less than 5 minutes at a time.

Maximum Frequency: 3 to 4 hours.

Duration: Seconds to less than 5 minutes at a time.

Description: Performs while utilizing a variety of tools including drills, pliers, ratchets, screwdrivers, saws, digging tools, Alan wrenches, manipulating nuts, bolts, screws, small parts, shoveling, utilizing rollers or brushes while painting, utilizing a vacuum, sweeping, mopping, utilizing a metal hook to remove or replace a manhole lid. Unilateral or bilateral hand use.

BENDING

Waist:

Average Frequency: 15 minutes to 1 hour.

Duration: Seconds to less than 5 minutes at a time.

Maximum Frequency: Up to 2 hours.

Duration: Seconds to less than 5 minutes at a time.

Description: Performs while repairing and servicing equipment, retrieving and setting items on and off lower shelves or the ground, painting in conjunction with utilizing rollers or brushes, landscaping including utilizing basic hand tools to repair irrigation systems, custodial tasks including polishing furniture, utilizing a squeegee to

clean windows, cleaning toilets, urinals, wiping walls, retrieving trash or debris, lubricating equipment, performing a variety of carpentry work including remodeling and assembling cabinets, counters, drawers, sanding, texturing and repairing walls, installing building hardware, marking utilities. The motion is in a forward direction up to 5 to 65-degrees.

Head/Neck:

Average Frequency: 4 to 5 hours.

Duration: Seconds to less than 15 minutes at a time.

Maximum Frequency: 5 to 6 hours.

Duration: Seconds to less than 15 minutes at a time.

Description: Performs while utilizing a variety of basic hand or power tools, utilizing a shovel, pick or digging bar, sledgehammer, grinders, chop saw, presses, skill saw, operating a jackhammer, performing a variety of semi-skilled work including carpentry, electrical, plumbing, painting, landscaping, custodial, and heating and ventilation tasks, installing water meters, cleaning floors, restrooms, toilets, windows, general office space areas, meeting rooms, performing a variety of carpentry work including remodeling and assembling cabinets, counters, drawers, renovates, relocates and alters employee workstations while sanding, during traffic setup, during normal body mechanics.

Wrists:

Average Frequency: 4 to 5 hours.

Duration: Seconds to less than 15 minutes at a time.

Maximum Frequency: 5 to 6 hours.

Duration: Seconds to less than 15 minutes at a time.

Description: Performs while utilizing a variety of tools including drills, wire cutters, wire strippers, tape measures, sockets, socket adapters, ratchets, tape measures, wrenches, screwdrivers, hammers, Alan wrenches, shovel, pick, digging bar, manipulating bolts, nuts, small parts, screws, operating a jackhammer, operating equipment including maneuvering a steering wheel and levers, sweeping, mopping, vacuuming, utilizing rollers or brushes while painting, utilizing carpentry tools, utilizing a metal hook to remove or replace a manhole lid, during normal body mechanics. Unilateral or bilateral hand use.

LIFTING/CARRYING

0 to 10 lbs.

Objects: Drills, pliers, tape measures, socket adapters, ratchets, wrenches, screwdrivers, drills, reciprocating saws, hammers, diagnostic tools, Alan wrenches, shovel, digging bar, pick, bolts, nuts, screws, small parts, wiring, telephone handset, writing utensil, paperwork, manuals, sledgehammers, grinders, air tools, grease gun, skill saw, levels, pneumatic nail gun, wire strippers, spray can, nails, miscellaneous parts, rollers, brushes, PVC cutters, mop, broom, squeegee, grease gun, nails, screws.

Average Frequency: 6 to 7 hours.

Maximum Frequency: Average frequency is consistent.

Duration: Seconds to less than 15 minutes at a time.

Distance: Less than 100 feet.

Height: Ground to shoulder or above.

Description: Performs while utilizing a variety of basic or power tools to perform a variety of tasks including performing carpentry, electrical, plumbing, painting, landscaping, custodial, heating and ventilation tasks, utilizing a writing utensil, handling paperwork, manuals, handling bolts, screws, nuts, small parts, utilizing rollers or brushes while painting.

11 to 25 lbs.

Objects: 8" PVC fitting, 2-gallon gas can, pneumatic pipe plug, shovel with dirt.

Average Frequency: Less than ½ hour to 1 hour.

Maximum Frequency: 1 to 2 hours.

Duration: Seconds to less than 15 minutes at a time.

Distance: Less than 100 feet.

Height: Ground to shoulder or above.

Description: Performs while retrieving and relocating a valve battery or while digging.

26 to 50 lbs.

Objects: Valve box lid, 3/8" chain, 5-gallon gas can, electric motor, 20' extension ladder, jack hammer, concrete debris, confined space winch, traffic signage, full wheelbarrow.

Average Frequency: 5 to 10 times.

Maximum Frequency: 20 to 30 times.

Duration: Seconds at a time.

Distance: Less than 25 feet.

Height: Ground to shoulder or above.

Description: Performs while retrieving and relocating equipment, tools and supplies including an impeller, band saw with case, electric motor, 12' ladder, trash pump, flange, pipe vice, oil bucket, blower, shaft, threader, portable head, toilet paper case

51 to 75 lbs.

Objects: Step/extension ladder, sandbag, jackhammer, 2' submersible pump.

Average Frequency: 2 to 3 times.

Maximum Frequency: Up to 10 times.

Duration: Seconds at a time.

Distance: Less than 10 feet.

Height: Ground to waist level.

Description: Performs while retrieving and relocating a step/extension ladder, jack stand, bucket of chain, utilizing a jackhammer includes pushing, pulling, partial lifting, lifting and guiding.

76 to 100 lbs.

Objects: Pump, 90 lb jack hammer, vault lid, confined space winch, confined space base tripod, bollards.

Average Frequency: 1 to 2 times.

Maximum Frequency: Up to 10 times.

Duration: Seconds at a time.

Distance: Less than 25 feet.

Height: Ground to shoulder or above.

Description: Performs while retrieving and relocating a pump, pipe and setting up for confined space entry.

100+ lbs.

Objects: Manhole lid, generator, 8" x 20' pipe, 4" plug valve.

Average Frequency: Up to 2 times.

Maximum Frequency: Up to 10 times.

Duration: Seconds at a time.

Distance: Less than 5 feet.

Height: Ground to waist level.

Description: Performs while utilizing a metal hook to remove or replace a manhole lid, a combination of pushing, pulling and partial lifting, and as needed loading and unloading a pressure washer, generator and 4 plug valves, with assistance.

SIMPLE GRASPING

Average Frequency: 5 to 6 hours.

Duration: Seconds to less than 15 minutes at a time.

Maximum Frequency: Average frequency is consistent.

Duration: N/A

Description: Performs while operating a variety of equipment including forklifts, truck, golf cart, tractor, backhoe in conjunction with maneuvering a steering wheel or levers, retrieving and relocating miscellaneous tools, parts, utilizing a telephone handset, handling paperwork, utilizing a grease gun to lubricate parts, a spray can to mark locations, painting in conjunction with utilizing rollers or brushes, mopping, sweeping, vacuuming, utilizing a squeegee to clean mirrors or windows, performing landscaping duties in conjunction with utilizing basic hand tools. Unilateral or bilateral hand use.

POWER GRASPING

Average Frequency: 2 to 3 hours.

Duration: Seconds to less than 15 minutes at a time.

Maximum Frequency: Up to 4 hours.

Duration: Seconds to less than 15 minutes at a time.

Description: Performs while utilizing a shovel, digging bar or pick while digging, operating a jackhammer in conjunction with pushing, pulling, partial lifting and guiding, utilizing wrenches to remove or secure bolts, pry bars to secure equipment, dollies or carts to relocate supplies, relocating hoses, utilizing grinders, electric chop saw, presses, drills, chainsaw, installing cabinetry including repairing walls. Unilateral or bilateral hand use.

FINE MANIPULATION

Average Frequency: 1 to 2 hours.

Duration: Seconds to less than 5 minutes at a time.

Maximum Frequency: 2 to 3 hours.

Duration: Seconds to less than 10 minutes at a time.

Description: Performs while utilizing a writing utensil, computer keyboard, mouse to enter or retrieve data, handling bolts, nuts, screws, nails, small parts, components, pressing telephone buttons to make outgoing calls. Unilateral or bilateral hand use.

MACHINES/TOOLS

- Drills
- Pneumatic nail gun
- Pliers
- Tape measures
- Sockets
- Socket adapters
- Ratchets
- Wrenches
- Screwdrivers
- Reciprocating saws
- Hammers
- Diagnostic tools
- Alan wrenches
- Digging bar
- Pick
- Writing utensil
- Telephone handset
- Sledgehammer
- Grinders
- Air tools
- Grease gun
- Skill saw
- Levels
- Square
- Rollers
- Vacuum
- Broom
- Mop
- Squeegee
- Wire strippers
- Spray can
- Roto hammer
- Jackhammer
- Pipe wrenches
- Presses
- Chop saw
- Computer keyboard, mouse, monitor
- Band saw
- Cut off saw
- Forklift
- 28-ton truck
- Golf cart
- Tractor
- Backhoe
- Aerial lift
- Dollies
- 4-wheeled cart
- Wrenches
- Motors
- Ladders
- Valves
- Generators
- Electric snakes
- Blowers
- Paint brushes

PERSONAL PROTECTIVE EQUIPMENT

- Depending on the exposure, the employee is required to wear head, hearing, eye, foot, face, and hand protection.
- The employee is required to wear fall protection and respiratory protection.

WEIGHTS AND MEASURES

Items Weighed:

- 4" C-900 pipe fitting – 6 lbs.
- 6" C-900 pipe fitting – 12 lbs.
- Gas Can (2 gallon) – 13 lbs.
- Suction hose (2" x 20' Green PVC) – 16 lbs.
- 6" x 4" I-beam – 20 lbs.
- Flow thru plug 6-8" – 20 lbs.
- 8" C-900 – 23 lbs.
- Pneumatic plug 10-18" – 25 lbs.
- Pipe (4" x 20' SDR 35) – 27 lbs.
- 3/8" chain – 28 lbs.
- Valve box lid (B12) – 28 lbs.
- Shoring (2' x 24-36" cylinder) – 30 lbs.
- Discharge hose (2" x 50' blue PVC) – 30 lbs.
- Cut off saw (hot saw) – 32 lbs.
- Jack hammer (30 pound) – 33 lbs.
- Gas can (5 gallon) – 33 lbs.
- Firehose (2.5" x 50') – 34 lbs.
- Confined space blower – 35 lbs.
- Electric motor (1 HP) – 35 lbs.
- Ventilation Blower (12V) – 36 lbs.
- Confined space winch – 41 lbs.
- Confined space base (tripod) – 95 lbs.
- Valve box (B12) – 96 lbs.
- Jack hammer (90 pound) – 97 lbs.
- Move furniture – 100 lbs.
- 2" Trash Pump (187 GPM) – 104 lbs.
- Pipe (8"x20' SDR 35) – 110 lbs.
- 4" gate valve – 114 lbs.
- 6" gate valve – 194 lbs.
- Manhole lid (36" diameter) – 229 lbs.
- Storm drain inlet (2x2) – 42 lbs.
- 20' extension ladder – 42 lbs.
- Concrete/Asphalt debris – 50 lbs.
- 6' plug hand crank – 50 lbs.
- Standard wheelbarrow (full) – 50 lbs.
- Metering vault lid (open) – 52 lbs.
- 28' extension ladder – 57 lbs.
- Traffic valve box (G5) – 58 lbs.
- Sandbags – 60 lbs.
- Pipe (4"x6' mission clay) – 60 lbs.
- Perma-Patch sack (60 pound) – 60 lbs.
- Concrete sack (60 pound) – 60 lbs.
- 2" Submersible sump pump – 60 lbs.
- Pipe (6"x20' SDR 35) – 61 lbs.
- Bumper crane assembly – 62 lbs.
- Lumber boards (2"x12"x16') – 64 lbs.
- Jack Hammer (60 pound) – 65 lbs.
- 2x4 grate – 71 lbs.
- Jet hose (pulling) – 71 lbs.
- Bollards (remove and replace) – 72 lbs.
- 32' extension ladder – 72 lbs.
- 4" plug valve – 75 lbs.
- 24" Manhole lid (open/lift) – 75 lbs.
- Concrete Sack (90 pound) – 90 lbs.
- Plywood (4'x8'x 1 1/8") – 94 lbs.

NOTICE: The Examples of Functions, responsibilities, work environment, physical demands etc. listed in this Job Analysis are representative only, and not exhaustive of the tasks that an employee may be required to perform.