GENERAL PURPOSE

Under general supervision, operates hydraulic cranes used in the operation and maintenance of fresh water treatment, waste water treatment plants and pump stations. Performs crane lifting calculations and rigging for assigned tasks. Transports heavy equipment throughout the District as needed. Diagnoses, and maintains cranes and a wide variety of gasoline and diesel powered trucks, construction equipment and automobiles; operates a wide variety of hand, power and shop tools. Performs services and inspections on vehicles and equipment as needed. Maintains and makes minor repairs to a variety of vehicles and equipment; assists journey-level mechanics; and performs related duties as assigned.

DISTINGUISHING CHARACTERISTICS

Crane Operator is a skilled, journey level class which is typically assigned to operate and maintain cranes, however may also be assigned to perform skilled duties in the maintenance and repair of a wide variety of motorized vehicles and equipment. Crane Operator is distinguished from Heavy Fleet Mechanic II by its specialized focus of crane operation and equipment transportation. Incumbents may also be assigned to assist journey-level technicians in the maintenance and repair of vehicles and equipment.

ESSENTIAL DUTIES AND RESPONSIBILITIES

The duties listed below are intended only as illustrations of the various types of work that may be performed. The omission of specific statements of duties does not exclude them from the position if the work is similar, related or a logical assignment to the class.

Operates and maintains mobile truck hydraulic cranes to lift, set, and place equipment, material, and heavy objects.

Performs heavy rigging functions for heavy lifts and long boom work according to standard safety procedures using wire ropes and slings.

Services and maintains crane equipment and drives the crane to and from work locations.

Safely performs specialized activities such as out-of-ordinary rigging and setting up cranes under potentially hazardous conditions such as uneven or soft terrain,
around overhead power lines and around structures.

Assists other Departments with the installation and or removal of equipment and materials to complete a project, as approved by direct supervisor or above. Operates a variety of hand / power tools as required.

Transports heavy equipment such as: manlifts, forklifts, piping, track hoe, pumps, etc. utilizing truck & trailer.

Operates and maintains Stellar Shuttle Truck when needed. Delivers fuel on a back up basis.

Performs inspections of mobile cranes along with any related minor or major repairs as needed.

May assist in the diagnoses, repairs and adjusts steering mechanisms and other controls; inspects, services and repairs air and hydraulic vehicle braking systems.

Performs 90 day truck, trailer, and forklift inspections as required; ensures inspected vehicles comply with federal safety standards and requirements.

May assist in the diagnoses and performs preventive maintenance work on automobiles and other equipment.

Works on a personal computer to use various software applications including but not limited to: Mitchel on Demand, RTA fleet management software, Maximo and Outlook.

Rewires trailers and equipment as required; locates and repairs short circuits; ensures proper safety precautions are observed.

May direct and instruct other employees in the work. May train and instruct on the operation of the manlift, forklift, scissor lift and auto cranes,

Makes oral and written reports of work performed; completes forms, keeps accurate maintenance records and work out scheduling conflicts.

Changes oil and filters; Changes engine, transmission, differential and power take-off lubricants; checks and replaces radiator, hydraulic and pneumatic hoses; changes radiator fluids.
Fuels vehicles and equipment; keeps gasoline, oil and lube services records on vehicles and equipment; tests, adds fluids, replaces and/or charges batteries.

Changes, balances and repairs tires on vehicles and light- and heavy-duty equipment, including multi piece wheels.

Changes and installs bulbs, wiper blades and other simple mechanical parts; diagnoses and repairs vehicle charging systems.

Operates compressors, auto cranes, steam cleaners, pneumatic and electric tools.

Reads, interprets and works from manuals, diagrams and written instructions.

Drives trucks to deliver supplies and materials; cleans parts and engines; responds to service calls in the field making minor repairs and replacement of parts to vehicles and equipment.

Cleans shop and vehicle service areas; assists journey-level technicians.

Performs other related duties as assigned.

**DESIRED MINIMUM QUALIFICATIONS**

**Knowledge of:**

Basic Crane operation and maintenance; methods, techniques, parts, tools and materials used in the maintenance and repair of diesel and gasoline powered vehicles, including automatic and manual transmissions, brakes, suspension and steering systems; operation and maintenance of a wide variety of hand, power and shop tools and equipment common to the field; safe work methods and safety regulations pertaining to work; use and operation of oxyacetylene and electric arc welding equipment and materials; shop mathematics; practices and procedures of shop and field welding; welding properties of various metals and alloys; lubrication systems, including oils and greases used in servicing and maintaining vehicles and equipment; methods, techniques, tools and equipment used to align vehicles and equipment; federal, state and local laws and regulations pertaining to the handling and disposal of hazardous waste and clean air requirements.

Operations and maintenance of vehicle systems and components; use and maintenance of basic shop, hand and power tools, such as sockets, wrenches, torque wrenches, pneumatic wrenches, greasing tools and other related tools; types and grades of lubricants, coolants, brake, steering and other fluids used in automotive and equipment servicing; use and maintenance of tire changing and
balancing equipment; safe working practices and safety equipment related to the work; federal, state and local laws and regulations pertaining to the handling and disposal of hazardous waste and clean air requirements.

**Ability to:**

Safely operate and maintain cranes; diagnose and repair a wide variety of diesel and gasoline-powered vehicles and related equipment; operate and maintain a wide variety of hand, power and shop tools and equipment used in the work; understand and follow oral and written instructions; estimate necessary materials and equipment to complete assignments; exercise independent judgment and initiative without close supervision; prepare basic records and reports; read and interpret manuals, specifications and drawings; use shop mathematics to make calculations; establish and maintain effective working relationships with those encountered in the course of the work; fabricate and repair a wide variety of metal parts, equipment and tools; operate a computer; follow and apply written and oral work instructions; communicate effectively, orally and in writing; make sound independent judgments within established guidelines.

**Training and Experience:**

A typical way of obtaining the knowledge, skills, and abilities outlined above is graduation from high school or G.E.D. equivalent and two years of journey-level experience in the operation and maintenance of cranes and related equipment. Experience in repair of vehicles or construction equipment is desired. Successful completion of appropriate trade school or technical course work in crane operation diesel or gasoline-powered mechanics may be substituted for up to one year of the required work experience; or an equivalent combination of training and experience.

**Licenses; Certificates; Special Requirements:**

A valid California commercial driver’s license, Class A, and the ability to obtain hazmat and tank endorsements within six months of date of hire. All District employees required to possess a valid Class A driver’s license for the performance of their duties shall be subject to random drug and alcohol testing pursuant to District policy and federal law.

Possess and maintain crane operator’s certification by NCCO with TSS rating. Ability to obtain forklift operators certification; demonstrate competence in lock out/tag out procedures, respiratory protection, confined space entry, and HAZCOM areas within 6 months of hire into this classification. The Crane Operator will be required to have ASE certification in Heavy truck PMI in order to reach the control point. This position may require a rigging certification.
PHYSICAL AND MENTAL DEMANDS
The physical and mental demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this class. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Physical Demands
While performing the duties of this job, the employee is frequently required to use hands to finger, handle, feel or operate objects, tools or controls; and reach with hands and arms. The employee is frequently required to climb or balance; stoop, kneel, crouch, or crawl. The employee is frequently required to walk, sit and talk or hear. The employee must frequently lift and/or move up to 50 pounds and occasionally over 100 pounds. Specific vision abilities required by this job include close vision, color vision and the ability to adjust focus. In addition operators should have normal depth perception. Coordination, and no tendencies to dizziness or similar undesirable characteristics.

Mental Demands
While performing the duties of this class, employees are regularly required to use written and oral communication skills; read and interpret data, information and documents; analyze and solve basic problems; use simple math and mathematical reasoning; observe and interpret situations; learn and apply new information or new skills; work under deadlines with interruptions; and interact with District staff, other organizations and the public. The employee is occasionally required to deal with dissatisfied or quarrelsome individuals.

WORK ENVIRONMENT
The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this class. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

The employee frequently works outside in a wide range of weather conditions, near moving mechanical parts, and on slippery and uneven surfaces. Employees may, at times, be required to wear appropriate personal protective equipment including respiratory protection while performing work in environments that could have the potential to contain wet or humid conditions, vapors or particulates, hazardous chemicals, and the risk of electric shock. The noise level in the work environment is frequently loud. The employee is subject to work around raw sewage.

Employees are subject to weekend and/or rotating shifts and 24-hour call out.
FLSA DETERMINATION: Non-exempt.