GENERAL PURPOSE

Under direction, provides lead supervision during assigned shift and may fill in for Fleet Supervisor during vacations or other absences; participates in a full range of Fleet Services work and provides training to lower level Fleet Technicians to effectively, diagnose, maintain, repair and overhaul a wide variety of diesel, gasoline and natural gas-powered heavy trucks, construction equipment and automobiles; operates a variety of hand, power and shop tools; and performs related duties as assigned.

DISTINGUISHING CHARACTERISTICS

Senior Heavy Fleet Technician is the lead or advanced journey level in the Fleet Technician series. In the lead assignments, incumbents provide direction to lower level staff including assigning, directing, and reviewing the work of staff. In the advanced-journey assignment, incumbents perform the more difficult and complex tasks and assignments. Positions at this level are distinguished from those in the lower level classification of Heavy Fleet Technician II by the independence with which they perform their duties of handling the most difficult and complex work or by performing lead work.

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.

Leads and instructs others on repair procedures; assigns, reviews, and provides training for less experienced Light and Heavy Fleet Technicians; works on special fabrication projects on vehicles, equipment and trailers; works on special projects as directed by Manager or Supervisor.

In a lead capacity, diagnoses and performs major repairs and overhauls to gasoline and diesel engines, involving inspection and replacement of broken or worn parts such as pistons, piston rings, valves, bearings, fittings, wrist pins, gaskets, etc.; inspects, troubleshoots, diagnoses, repairs, cleans, adjusts and installs fuel, ignition, electrical and cooling systems involving repair and replacement of such parts as carburetors, fuel injectors and injector pumps, spark plugs, starter motors, distributors, generators, computer controls for engines, transmissions, brakes, and other systems, voltage regulators, wiring switches, batteries, radiators, thermostats, water pumps, etc.

Diagnoses, repairs and adjusts steering mechanisms and other controls.
Performs wheel alignments, either thrust angle compensated or four wheel alignment.

Machines brake rotors and drums, using a brake lathe.

Inspects, services, and repairs air and hydraulic vehicle braking systems.

Services, maintains and repairs small engines, both 2 stroke and 4 cycle.

Repairs vehicle body and chassis parts, using hand and power tools, electric arc, MIG, and oxyacetylene welding equipment.

Diagnoses and overhauls differential assemblies on automobiles, trucks, and other equipment.

Repairs and replaces clutches on trucks, tractors, and other equipment.

Road tests vehicles; drives truck or equipment as required; inspects vehicles in the shop and field.

Diagnoses and repairs heating systems; replaces heater cores and control systems.

Diagnoses, services, and repairs vehicle air conditioning systems; repairs R-12 and R-134A systems; retrofits R-12 systems to 134A.

Diagnoses and repairs engine, transmission and anti-locking brake system electronic computer using scan tool and scope.

Smog checks and certifies vehicles; repairs missing, modified, or non-functional emission control equipment.

Diagnoses and repairs all aspects of equipment and vehicles in the field, including emergencies and after-hours.

Performs diesel engine opacity testing for air resource board.

Performs 90 day truck inspections, required by law; ensures inspected vehicles comply with federal safety standards and requirements.

Performs preventive maintenance work on construction equipment, heavy trucks, backhoes, automobiles, light trucks and other equipment.

Diagnoses and repairs transmissions and transaxles.

Reads and interprets manuals, drawings and specifications.

Works with a personal computer to use Mitchell-On-Demand vehicle manuals on DVD.
Uses personal computer to load updates into Master Tech hand held scanner; uses laptop computer to upload and download data in vehicles using diesel particulate traps.

Works with personal computer to use computerized fleet software.

Estimates labor, material and equipment required to complete assignments.

Diagnoses, repairs and maintains vehicle and equipment air brakes, hydraulic systems and associated power take-off equipment.

Diagnoses and repairs all aspects of hydraulic systems including pumps, motors, rams, controls, etc.

Modifies and fabricates new parts for truck bodies and similar equipment.

Installs and repairs vehicle mounted equipment such as electric cranes, hoists, hydraulic lift equipment, welders, and compressors.

Performs welding work on vehicles, equipment and tools; fabricates metal parts for vehicles, equipment, tools, tanks, plates, grates, etc.; straightens and repairs bent vehicles, equipment and tools; fabricates and installs bumpers, tow bars, ladder racks, tool boxes, pipe railings, etc.

Rewires trailers and equipment as required; locates and repairs short circuits; repairs and replaces electric dash gauges.

Reads and interprets blueprints, sketches and rough drawings.

Ensures proper safety precautions are observed.

Performs preventive maintenance and service work, including tune-ups, checking and replenishing fluid levels, and replacing hoses, belts, batteries, wiper blades, bulbs and lamps.

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

May be assigned to train or work on light and heavy duty equipment and vehicles.

Performs related duties as assigned.

DESIRED MINIMUM QUALIFICATIONS

Knowledge of:

Methods, techniques, parts, tools and materials used in the overhaul, 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; purchasing rules as they pertain to credit card and purchase orders; parts locating and parts ordering as required.

Ability to:

Lead, and train others to perform a wide range of light and heavy-duty fleet maintenance repairs; 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; estimate necessary materials and equipment to complete assignments; prepare basic records and reports; read and interpret manuals, specifications and drawings; use shop mathematics to make calculations; fabricate and repair a wide variety of metal parts, equipment and tools; establish and maintain effective working relationships with those contacted in the course of work; follow and apply written and oral work instructions; communicate effectively, orally and in writing; make sound independent judgments within established guidelines; train others in work processes and procedures.

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; two years of journey level mechanical experience preferably including at least one year of experience training and inspecting the work of other automobile and heavy equipment mechanics.

Licenses; Certificates; Special Requirements:

The Senior Heavy Fleet Technician requires certification as a Master Heavy-Duty Truck Technician or Automotive Technician. Advancement to the control point requires certification as both a Master Heavy Truck Technician and Master Automotive Technician. Refer to career ladder in office for advancement details.
A valid California driver’s license, Class A with hazmat and tank endorsements, and the ability to maintain insurability under the District’s Vehicle Insurance Policy. 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. Achieve and maintain forklift operators permit; competence in crane operations, lock out/tag out procedures, respiratory protection, confined space entry, and HAZCOM areas.

Requires ASE master certification in either light or heavy-duty vehicles to qualify for the position. ASE certification in both light and heavy-duty vehicles is required to advance in this classification.

A California Emissions Inspector License and a State lamp and brake license are desired.

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 occasionally required to climb or balance, stoop, kneel, crouch or crawl, 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.

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.
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.

Employees are subject to swing shift, night shift, weekend and/or rotating shifts and 24-hour call out.

FLSA DETERMINATION: Non-exempt