

THE CITY OF LOS ANGELES



CIVIL SERVICE COMMISSION

CLASS SPECIFICATION**06-22-2023****EQUIPMENT MECHANIC, 3711**

Summary of Duties: An Equipment Mechanic does skilled mechanical work in the maintenance and repair of automotive transportation equipment and inspects such equipment to ascertain needed repairs.

Class Characteristics: The work of an Equipment Mechanic is confined mainly to the maintenance and repair or inspection of automotive equipment used for transportation rather than construction purposes. These automotive equipment typically have a Gross Vehicle Weight Rating (GVWR) of 26,000 or less and do not have a pneumatic or air brake system. Work is usually assigned by written order, and may be inspected after completion. Little supervision is exercised over the details of work execution and techniques employed, but a supervisor may give advice and approve the use of new parts. Equipment Mechanics may be required to furnish their own tools.

Examples of Duties:

- Repairs, inspects, and tests transportation equipment such as passenger cars, trucks, rescue ambulances, trailers, motor flushers, motorcycles, and other transportation equipment to ascertain needed repairs;
- Repairs, inspects, and tests gasoline, diesel, propane, CNG, LNG, hybrid, and electric vehicles.
- Diagnoses internal combustion engine malfunctions, noises, or failures;
- Removes, repairs, overhauls, and installs engines and transmissions, including heavy duty automatic transmissions;
- Slings and rigs equipment;
- Inspects, adjusts, and replaces necessary units and related parts, including valves, pistons, gears, and bearings;
- Repairs and replaces oil, water, and fuel pumps;
- Cleans and repairs carburetors and fuel systems, including diesel fuel systems;
- Restores and hones cylinders and fits pistons, piston rings, and piston pins;
- Grinds valves;
- Relines and adjusts clutches;
- Repairs and overhauls chassis units, including brake systems;
- Works on brake boosters and valves;
- Trues brake drums and brake rotors;
- Fits and adjusts brake shoes;
- Repairs and overhauls hydraulic pressure systems;
- Overhauls and aligns front ends;
- Repairs power steering units;

- Overhauls steering gear;
- Repairs vehicle air conditioning units;
- Repairs exhaust emission control systems;
- May repair speedometers;
- May balance wheels;
- Tunes engines;
- Makes compression tests;
- Tests coils, condensers, distributors, and other electric parts;
- Tests and repairs computer controlled ignition systems and electronic fuel injection systems;
- Tests ignition circuits and times camshafts and ignitions;
- Road tests automotive equipment for proper performance;
- May perform various regulatory duties such as SMOG's and Biannual Inspection of Terminals (BITs);
- May perform various shop related compliance inspections such as fuel island, Injury and Illness Protection Program (IIPP), and stormwater inspections;
- May install or replace electric wiring and lamps;
- May repair starters, generators, and alternators;
- Prepares shop orders authorizing repairs;
- Tests and inspects equipment after completion of shop repairs to determine that it is in satisfactory operating condition, corrects minor faults during inspections;
- May be required to use a terminal or personal computer;
- Makes minor repairs such as replacing glass, repairing door locks, and repairing seat adjustment mechanisms;
- May drive a tow truck or a pick-up truck and make emergency repairs in the field;
- Uses an emissions analyzer dynamometer, exhaust analyzer, dwell meter, compression gauge, vacuum gauge, fuel pump pressure gauge, wheel alignment gauge, drill press, hydraulic press, cylinder boring bar, valve refacer, valve seat refacing machine, bench grinder, hone, connecting rod aligner, pin fitting machine, drum lathe, micrometer, and other machine and hand tools of the trade;
- Maintains mower decks and reels on all smaller-sized mowing equipment;
- Occasionally uses a lathe in a restricted manner;
- Occasionally does rough acetylene and electric welding and brazing on non-structural components;
- May fabricate and install special equipment and parts on vehicles;
- May provide direction to and oversee the work of a helper engaged in repair work;
- May occasionally be assigned to other duties for training purposes or to meet technological changes or emergencies.

Minimum Requirements:

1. Completion of a recognized apprenticeship as an automotive mechanic; **or**
2. Completion of the Automotive Service Excellence (ASE) Master Technician Certification for Automobile Repair; **or**
3. Four years of full-time paid experience in automotive mechanic work; **or**
4. Satisfactory completion of a two-year program in automotive or truck mechanics from an accredited community college, trade or technical school **and** two years of full-time paid experience in automotive mechanic work.

License:

- A valid California Class C driver's license is required prior to appointment.
- Some positions may require a valid California Class A or Class B driver's license and valid medical certificate approved by the State of California Department of Motor Vehicles prior to appointment.

Physical Requirements:

- Strength to perform average lifting of up to 35 pounds and occasionally over 70 pounds;
- Back and leg coordination involved in activities such as stooping, kneeling, crouching, and crawling to an unusual extent;
- Arm, hand, and finger dexterity with both hands involved in reaching, handling, and feeling;
- Good hearing ability for diagnosing vehicles;
- Good eyesight; and
- Stamina to operate in confined spaces and working outdoors.

Persons with disabilities may be able to perform the essential duties of this class with reasonable accommodation. Such accommodation will be evaluated on a case by case basis and depend, in part, on the specific requirements for the job, the limitations related to the disability, and the ability of the hiring department to reasonably accommodate the limitations.

As provided in Civil Service Commission Rule 2.5 and Section 4.55 of the Administrative Code, this specification is descriptive, explanatory, and not restrictive. It is not intended to declare what the duties and responsibilities of any position shall be.