

MAJOR FUNCTION

This is highly complex master level skilled work in the maintenance and repair of large pumps, motors, compressors, gasoline, diesel, CNG, electric or hybrid driven automotive and related heavy equipment, consistent with duty assignment. The employee of this class performs highly complex tasks in the mechanical repair and maintenance of automobiles, light and heavy-duty trucks, transit buses, tractors, graders, fire trucks, pumps, gas compressors, heat exchanger, sanitation hydraulic packer trucks and other related equipment. Employees work under minimum supervision using independent judgment and initiative as to method of repair after receiving work order. Work is performed under minimum to no supervision.

ESSENTIAL AND OTHER IMPORTANT JOB DUTIES**Essential Duties**

Performs major overhaul and major repair work on automobiles, light and heavy trucks, mowers, and other automotive, diesel, pumps, compressors, and turbines, and mechanical equipment. Inspects, adjusts, and replaces necessary units and related parts including valves, pistons, main bearing assemblies, cooling, fuel, and exhaust systems, bearings, bushings, and seals. Tunes motors using standard testing equipment. Repairs and overhauls brakes, transmissions, differentials, and front and rear axle assemblies. Repairs and installs hydraulic controls. Takes down, repairs, and re-assembles air and gas compressors, pumps, and related equipment. Inspects, repairs, overhauls, and assembles automotive electric equipment such as generators, distributors, magnetos, and starters. Repairs and welds automobile and truck bodies. Uses hand and power-driven tools and equipment such as grinders, fender hammers and sanders, drill presses, lathes, testing and welding equipment, and other garage and mechanical shop tools and equipment. Completes work orders and requisitions needed parts. Operates various equipment and vehicles in performance of duties. Performs related work as required. Employees in the Master Technician classification are expected to share knowledge, technical expertise, and provide mentorship to apprentice and journeyman level technicians in the same department.

Other Important Duties

May perform welding duties associated with mechanical repair tasks. Performs related work as required.

DESIRABLE QUALIFICATIONS**Knowledge, Abilities and Skills**

Mastery-level proficiency and knowledge of the construction, assembly, adjustment, and maintenance of a wide variety of automobiles, trucks, diesel motors, and other general and specific automotive and diesel equipment. Mastery level proficiency and knowledge of the construction, assembly, adjustment, and maintenance of a wide variety of pumps and compressors and other specialized equipment. Mastery level proficiency and knowledge of the occupational hazards and safety precautions of the trade. Mastery level proficiency and knowledge of all types of shop tools such as drills, pressers, grinders, micrometers, boring bars, reamers, brake relining and drum grinding machines, and valve re-facing and seat grinding tools. Ability to diagnose the more common defects of motors in automotive equipment, pumps, turbines and compressors. Ability to detect by inspection any worn or broken part or improperly adjusted part or assembly. Ability to direct and supervise the work of other technicians. Ability to diagnose and perform repairs on gasoline, diesel, CNG, hybrid or electric vehicles, consistent with duty assignment. Ability to keep records of repair and service operations and to make reports. Ability to follow oral and written instructions accurately. Ability to read and understand maintenance manuals for all motors and equipment being maintained or repaired. Ability to perform work out of doors under adverse weather conditions. Skilled in the

application of methods and techniques used in the automotive and diesel mechanic craft. Skilled in the care and use of pertinent tools, equipment and facilities.

Minimum Training and Experience

Possession of a high school diploma or an equivalent recognized certificate and ten (10) years of professional experience in the repair and maintenance of automobiles, trucks, buses, or equipment; or an equivalent combination of training and experience. Directly related experience may be substituted on a year-for-year basis for the required education.

Necessary Special Requirements

Must possess the appropriate State Commercial Driver's License (CDL) and endorsement(s) at the time of appointment, depending on duty assignment: Fleet Class (A) OR StarMetro (B) w/ Air brake and (P) endorsement.

Must possess an EPA Section 608 or 609 certification

Must possess two (2) ASE Master Certifications (Automobile, Medium/Heavy Truck, or Transit Bus).

Must possess the ASE Light Duty Hybrid/EV Certification OR Proterra EV Bus Training Certification, depending on duty assignment.

At the department director's discretion, a Heating and Air Conditioning certificate from the National Institute for Automotive Service Excellence (NIASE) or an equivalent certificate may be required at the time of application for any of the designated positions allocated to this class.

Established: 02-08-22