

HEAVY DUTY BUS-TRUCK MECHANIC

DEFINITION

Repairs a variety of vehicle equipment, including gasoline, diesel, electric, and alternative fuel school buses, medium/heavy trucks, and powered equipment.

TYPICAL DUTIES

Overhauls and maintains a variety of heavy-duty gasoline, diesel, electric, and alternative fuel vehicle equipment, including trucks from one-half ton to ten ton capacity, school buses with gross vehicle weight from 7,000 to 40,000 pounds, crawler and wheel tractors, and rollers.

Overhauls and maintains passenger automobiles, air compressors, forklifts, skidloaders, etc.

Diagnoses sources of trouble or failure in vehicle equipment, including those in electronic components.

Performs repair work, such as installing engines and installing piston rings, fitting bearings, aligning rods, completely overhauling internal combustion engines, tuning up and timing engines, repairing or replacing electronic components, repairing clutches, overhauling transmissions including automatic types, overhauling single- and two-speed differentials, removing and balancing wheels, and inspecting and repairing mufflers and smog control devices.

Adjusts and repairs hydraulic loading systems and controls, mechanical vacuum boosters, hydraulic and air brakes, suspension systems, steering assemblies, and ignition systems, including the setting of voltage regulators, generators, and alternators.

Lubricates engines and chassis and performs preventive maintenance checks.

Performs simple electric and acetylene welding.

Cleans tools, equipment, and the work area.

Road tests vehicles.

Matches tires on dual wheels.

Performs related duties as assigned.

DISTINGUISHING CHARACTERISTICS AMONG RELATED CLASSES

Heavy Duty Bus-Truck Mechanic repairs and maintains school buses and medium/heavy trucks, automobiles, and other vehicle equipment.

An Assistant Garage Supervisor assists in supervising fleet maintenance personnel in the repair of a variety of automotive equipment and is responsible for a garage during an assigned shift.

An Automotive Mechanic performs mechanical repairs on automobiles and other light duty gasoline-powered equipment and assists in repairing heavy-duty equipment.

SUPERVISION

General supervision is received from a Garage Supervisor or an Assistant Garage Supervisor. Work direction may be exercised over apprentices in the trade, a Garage Assistant or a Garage Attendant.

CLASS QUALIFICATIONS

Knowledge of:

- Principles of vehicle mechanics, electrical systems, and emission controls
- Vehicle repair tools, including their proper use and care
- Vehicle diesel engines, electric powered drivetrains, alternative fueled power engines, including compressed natural gas (CNG) and propane equipment systems, and hydraulic loading systems
- Safety practices required in the use of garage equipment and the performance of repair work on electrical and fuel systems
- California Vehicle Code relating to requirements of air brake systems in heavy trucks and school buses

Ability to:

- Operate and adjust brake grinding equipment, motor analyzers, drill presses, welding equipment, synchronograph equipment, smog emission equipment, and hydraulic presses
- Operate dynamometers, electronic analyzers, various vehicle diagnostic scan tools, and laptops
- Use and read precision instruments such as micrometers and dial indicators
- Read manuals and specifications and select proper parts from catalogs
- Diagnose malfunctions by reading instruments and hearing improper operation
- Access standard District computer software applications, including Vehicle Maintenance Systems, e-mail, and required on-line trainings
- Work cooperatively with other employees

Special Physical Requirements:

- Safely lift and carry automotive parts and equipment weighing at least 50 pounds
- Ability to stand, walk, bend, crawl, crouch, and kneel
- Crawl under vehicles and stretch to reach components requiring repair or replacement
- Manual dexterity to operate automotive repair tools and equipment

ENTRANCE QUALIFICATIONS

Education:

Graduation from high school or evidence of equivalent educational proficiency.

Experience:

Completion of a four year apprentice training program in heavy duty vehicle equipment repair, or four years of equivalent experience in heavy duty vehicle equipment repair. Completion of a heavy duty vehicle repair program from a recognized college or vocational school of at least two years duration may substitute for one year of the required experience.

Special:

- A valid driver's license to legally operate a motor vehicle in the State of California and the use of a motor vehicle.
- A valid Class B California Driver License with a "passenger" endorsement will be required prior to the completion of the probationary period.
- Must furnish a roll away tool box and hand tools of the trade up to 1-1/4 inch.

SPECIAL NOTE

Effective January 1, 1995, all employees in this classification are subject to the Federal Highway Administration regulations for drug and alcohol testing as required by the Omnibus Transportation Employee Testing Act of 1991.

This class description is not a complete statement of essential functions, responsibilities, or requirements. Entrance requirements are representative of the minimum level of knowledge, skill, and/or abilities. To the extent permitted by law, management retains the discretion to add or change typical duties of a position at any time, as long as such addition or change is reasonably related to existing duties.

Revised
05-19-2023
JPK