

HEAVY DUTY MECHANIC

DEFINITION

Under general supervision performs skilled mechanical maintenance in overhauling and repairing diesel and gasoline-powered buses, passenger vehicles, and trucks; performs preventive maintenance inspections of buses, trucks, autos, and other mechanical equipment; directs the work of assigned helpers; and performs related work as required.

CLASS CHARACTERISTICS

This is a fully qualified journey level class in heavy duty diesel/electric/propane/gas engine repair. Incumbents are expected to perform skilled journeyman level repairs independently on all District vehicles.

LICENSE REQUIRED

Possession of a valid California driver's license. Incumbents required to obtain class A driver's license at their own expense within six (6) months of regular employment. Required to obtain a valid Municipal Smog Certificate within six (6) months of initial appointment.

EXAMPLES OF DUTIES

Diagnoses and repairs mechanical defects in a variety of vehicles at the garage or in the field. *E*

Rebuilds or repairs both diesel, electric, propane, and gasoline powered engines, standard transmissions, rear ends, starters, alternators, generators, brakes, clutches, axles, power and manual steering gears, drive shafts, carburetors, cooling systems, air conditioning, automatic transmissions, and other mechanical and electrical assemblies and air operated systems. *E*

Performs complete tune-ups and rewiring. *E*

Repairs, replaces and adjusts power disc, air hydraulic, and hydrovac brakes and anti-lock braking systems. *E*

Paints and makes body repairs using welding equipment and bonding materials. *E*

Contacts parts dealers and jobbers and refer to catalogs to order needed parts and supplies. *E*

Performs preventive maintenance inspection of under carriage, gasoline and diesel school buses in compliance with Motor Carrier Safety Regulations and completes check sheet and repair report. *E*

Maintains work area clean and safe. *E*

Maintains time and material records. *E*

Instructs and directs the work of assigned helpers. *E*

EXAMPLES OF DUTIES (cont.)

Operates District vehicles. *E*

Fabricates parts including gas and electric welding as assigned. *E*

Performs related work as required.

MINIMUM QUALIFICATIONS

Knowledge of:

1. Preventive vehicle maintenance practices;
2. Computerized engine management systems;
3. Emission and smog/smoke testing equipment;
4. Principles of internal combustion engines;
5. Simple record keeping;
6. Shop math applicable to vehicle maintenance;
7. Proper methods, materials, tools and equipment used in the vehicle maintenance trade;
8. Appropriate safety precautions and procedures;
9. Computer diagnostic procedures; scan tools, ABS diagnostics and A/C service tools.

Ability to:

1. Diagnose mechanical and electrical defects;
2. Operate equipment used in repairing or servicing of vehicles;
3. Read and use mechanical diagrams, repair manuals, parts catalogs, test instruments, meters, and gauges;
4. Perform skilled journey repair and maintenance work to District vehicles, including major and minor engine and body work;
5. Maintain simple records;
6. Direct the work of others;
7. Operate a vehicle observing legal and defensive driving practices;
8. Understand and carry out oral and written instructions;
9. Establish and maintain effective relationships with those contacted in the course of work; and
10. Perform complex or varied tasks.

EDUCATION

Individuals possessing the knowledge, skills, and abilities listed above are considered to possess the necessary education.

EXPERIENCE

Recent fully skilled journey level experience in the maintenance, repair, and overhaul of heavy and light gasoline- and diesel-powered automotive equipment.

WORKING CONDITIONS

Environment:

Shop environment; subject to noise from equipment operation.

Physical Abilities:

Dexterity of hands and fingers to operate specialized equipment and hand and power tools; reaching overhead, above the shoulders and horizontally; standing for extended periods of time; lifting heavy objects weighing up to 60 pounds; bending at the waist; stooping, carrying, pushing or pulling.

Hazards:

Exposure to fumes, vapors, dust, vehicle exhaust, noise; working around and with machinery having moving parts; working in cramped or restrictive work chambers.

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1/94
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