



AUTOMOTIVE AND EQUIPMENT MECHANIC

FC: MA205
PG: MW-III

PC: 301
BU: 01
Revised: July 23, 2004

*Class specifications are intended to present a descriptive list of the range of duties performed by employees in the class. Specifications are **not** intended to reflect all duties performed within the job.*

DEFINITION

Under general supervision, troubleshoots, repairs and maintains a wide variety of automotive, heavy and other power operated equipment; and performs related work as assigned.

CLASS CHARACTERISTICS

This is a journey level classification, capable of the full range of mechanical, electrical, hydraulic, pneumatic, diesel and related repair and maintenance. This classification is distinguished from other mechanical maintenance classes by the variety of equipment maintained and by work on both road and track vehicles, with the exception of revenue vehicles.

REPORTS TO

This position reports to the Manager of Automotive and Equipment Maintenance.

EXAMPLES OF DUTIES – *Duties may include, but are not limited to the following:*

1. Road tests, inspects, troubleshoots, repairs, maintains, outfits and modifies gasoline and diesel passenger vehicles, light, medium and heavy duty equipment and vehicles, including fixed and high-rail and small motor operated equipment.
2. Inspects and troubleshoots equipment, including the use of computerized diagnostics; discusses equipment operating problems with supervisors and users.
3. Performs routine preventive maintenance, including lubrication, oil changes, filter changes and minor adjustments.
4. Tunes, repairs and rebuilds gasoline and diesel with multiple cylinders, and prepares engines for job shop work.
5. Adjusts, repairs, replaces and/or rebuilds carburetors, fuel injection systems and other fuel system components, including computer controls.
6. Troubleshoots, adjusts, replaces components, and rewires ignitions, signals, lights, electrical controls, and related.
7. Repairs and rebuilds hydraulic, and pneumatic powered accessories; repairs, services and adjusts

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transmissions, power take off apparatus, differentials, clutches, and related drive-train components.

8. Adjusts, disassembles, and repairs or replaces conventional, hydraulic, vacuum assisted and pneumatic drum and disk braking systems, components, valves, lines and master cylinders.
9. Repairs and replaces suspension and steering components; repairs flats and mounts and balances tires including split-rim wheels.
10. Troubleshoots, adjusts, repairs, and replaces components in cooling and exhaust systems, including smog controls.
11. Performs limited welding, cutting, and machining of parts; obtains parts for stock and requests ordering of special parts; provides fuel and supplies and performs on-site maintenance and repair to stationary or disabled equipment; completes records of work performed and parts and supplies used.
12. Inputs daily work onto a computerized data base.
13. Stays abreast of new automotive and equipment repair technology by attending seminars and/or update classes as needed.

QUALIFICATIONS

Knowledge of:

Methods, equipment, tools and materials used in the maintenance and repair of gasoline and diesel powered vehicles and equipment.

Operating principles of engine, drive-train, fuel, electrical, braking, suspension, steering, cooling, and exhaust systems.

Maintenance and repair of hydraulic and pneumatics.

Troubleshooting techniques.

Use, adjustment, and care of test equipment and hand and power tools common to the trade shop.

Arithmetic required in vehicle maintenance.

Safe working practices.

Basic computer use.

Skill in:

Troubleshooting and determining causes of automotive and equipment operating problems.

Servicing and lubricating a wide variety of vehicles and equipment; tuning up diesel, gasoline, and propane engines of various sizes.

Servicing, adjusting and repairing transmissions, differentials, and power take-off apparatus.

Servicing, adjusting and repairing hydraulic and pneumatic apparatus.

Operating hand and power tools safely; understanding and following written and oral instructions.

Reading and interpreting service complaints, repair manuals, diagrams and parts documents.

Keeping simple written records.

Establishing and maintaining effective working relationships with those contacted in the course of the work.

MINIMUM QUALIFICATIONS

Education:

Possession of a high school diploma, GED or recognized equivalent. Completion of an apprenticeship program in automotive or related equipment.

Experience:

One (1) year of (full-time equivalent) verifiable journey level experience in automotive or equipment maintenance. Previous diesel, hydraulic and locomotive experience is desirable.

Other Requirements:

Must possess and maintain a valid California Class A driver's license with hazardous materials and tank vehicle endorsements and have a satisfactory driving record.

Must be able to lift and carry up to 100 pounds, maneuver heavier objects with assistance and climb, stoop and crawl to reach work, twist and bend.

May require color vision to distinguish parts and wiring.

Must be able to understand, read and communicate in English.

Must be able to wear respiratory protective equipment during the performance of assigned duties in accordance with the District Respirator Program and applicable Cal-OSHA requirements.

Must be able to work under various conditions including under a lift, over a hood, in a pit, and from a step ladder.

WORKING CONDITIONS

Environmental Conditions:

Shop environment; field environment. Exposure to and including physical contact with fuel, solvents, and other hazardous materials, grease, dirt and oil in the process of repair and servicing; exhaust, fumes from chemicals used in the shop; heat, cold, vibration and hazardous conditions when working in the field.

Physical Conditions:

Requires maintaining physical condition necessary to lift and carry up to 100 pounds; maneuver heavier objects with assistance; climbing, stooping, crawling, twisting, bending, working overhead, in a pit, or on a lift.