

**MECHANIC**  
**Public Works**

**DEFINITION**

Under administrative supervision of the Public Works Superintendent and technical supervision of the Lead Mechanic, performs skilled mechanical repair and maintenance of gasoline and diesel vehicles, passenger buses and a wide variety of motorized equipment; and performs other related duties as assigned.

**EXAMPLES OF DUTIES**

- Performs a wide variety of diagnostic tests to gasoline and diesel vehicles, buses and motorized equipment to identify causes of operating problems and to determine needed repairs.
- Performs a wide variety of journey-level mechanical maintenance and repair work on gasoline and diesel engines, including overhauls and tune ups, the repair and and/or replacement of carburetors and fuel injection systems; the repair and/or replacement of cooling systems.
- Performs brake adjustments and replaces wheel bearings; relines brakes.
- Performs transmission and differential repairs and replacements.
- Performs repairs and replacements to steering boxes and clutches; repairs and replaces suspension systems.
- Diagnoses and troubleshoots electrical problems and makes repairs to a wide variety of vehicles and equipment.
- Repairs and replaces hydraulic systems and pumps; performs minor body repairs and modifications; performs welding and brazing work such as fabricating trailer hitches on dump trucks and mounts for radios and/or shotguns.
- Performs a wide variety of routine preventive maintenance tasks, including checking and changing oil, fluids, filters, gaskets, etc; greases and lubes vehicles; drains water traps and air tanks; checks braking systems; checks for tire wear and replace tires; and steam cleans engines.
- Responds to calls for emergency road service and parts pickup.
- Prepares written records of work performed by completing maintenance work orders and/or entering data into a computer.
- Maintains shop equipment; maintains cleanliness and orderliness of the working area.
- Performs all other related duties as assigned.

## **REQUIREMENTS**

**Knowledge of:** The methods, materials and techniques of journey-level mechanical repair and maintenance, including gasoline and diesel engines, fuel systems, braking systems, transmissions and differentials, cooling systems, hydraulic systems, suspension systems and electrical systems; diagnostic principles, techniques and equipment utilized in the maintenance and repair of gasoline and diesel vehicles, buses and equipment; tools used in the automotive repair field; and basic techniques and principals of basic welding/brazing.

**Skill in:** Diagnosing operating problems with a wide variety of gasoline and diesel vehicles, buses and equipment; performing journey-level repairs to engines, transmissions, suspension and braking systems, cooling systems, electrical systems, and fuel systems; reading, interpreting and applying information from service manuals, repair manuals, and a wide variety of related technical materials, including schematics; performing mathematical calculations, including the calculation of degrees, ratios, angles, etc.; completing work orders and entering basic data into a computer terminal; fabricating simple parts utilizing welding and/or brazing equipment; and establishing and maintaining cooperative working relationships with co-workers and the general public.

## **OTHER REQUIREMENTS**

Must possess a valid California Driver's License, and must obtain a Class "A" license (with Airbrake and Passenger Endorsements) during the initial probationary period (six months); must be willing to work nights, weekends, on-call and/or overtime as necessary; must be able to perform the physical aspects of the job, including working in or under cramped spaces, climbing up to 15 feet, lifting, pulling, dragging, and carrying up to 100 lbs., lifting and carrying with help up to 150 lbs., standing or performing heavy physical labor on a sustained basis, working outside in all weather conditions; must be willing to work around fuels, solvents, lubricants, acetylene under pressure, etc.; must provide own tools, wear a uniform and safety gear; and must participate in the Federally mandated drug and alcohol testing program, including both pre-employment and random testing as a condition of employment.

## **DESIRABLE EXPERIENCE AND TRAINING**

Applicants should have experience and training which would tend to demonstrate possession of the required knowledge and skills outlined above. An example would be:

Equivalent to graduation from high school and at least two years of journey level experience in the maintenance and repair of both gasoline and diesel powered vehicles and equipment. Previous experience with buses and motorized equipment is highly desirable.