

## MECHANIC IV

### DEFINITION

In a lead capacity, to supervise and work with a crew of mechanics to perform a variety of minor and major mechanical repairs to gasoline or diesel powered automotive, heavy construction and other power-driven equipment.

### SUPERVISION RECEIVED AND EXERCISED

Receives general supervision from higher level supervisory and management staff; exercises technical supervision over lower level staff in the Fleet Operations division.

### DISTINGUISHING CHARACTERISTICS

Mechanic IV is the lead worker/advanced journey level classification in the Mechanic classification series. This classification is a lead position designed to provide technical supervision over the lower level mechanic classifications and coordinate the repair and maintenance of automotive and heavy equipment vehicles. This classification requires the incumbent to provide tools according to the Tool Provision List.

The Mechanic IV may also be assigned to the maintenance and operation of the pumps during storm or other emergency and non-emergency events.

### EXAMPLES OF DUTIES - Duties may include, but are not limited to, the following:

Consults with Supervisor regarding assignments and activities; inspects completed job and reports to Supervisor; instructs workers and demonstrates proper techniques and methods of performing various tasks; estimates the amount of materials, repair parts, and tools needed for jobs; supervises crews of mechanics.

Inspect, diagnose, and locate mechanical difficulties on County automobiles, trucks, and a variety of diesel and gasoline powered maintenance, and construction equipment.

Perform diagnostic tests on diesel and gasoline powered vehicles related to air pollution devices and testing standards.

Replace or repair faulty parts including wheel bearings, clutches, or oil seals, shock absorbers, exhaust systems, steering mechanisms, and related parts and equipment.

Weld, fabricate and assemble parts and equipment for County heavy construction equipment; weld, braze, cut shape and fasten metal parts; fabricate and weld hydraulic lines, vehicle frames, chassis, and exhaust systems.

Overhaul, repair, and adjust engines, transmissions, differentials, clutches, valves and heavy construction equipment hydraulic systems; machine, grind and rebuild engine blocks, heads, cylinders and valves.

Service automatic and manual transmissions; replace bearings, gears and seals; change fluid and filters.

Service and repair differentials and suspension; replace springs, torsion bars, bushing ball joints and shock absorbers.

Service electrical systems; replace and rebuilt alternator and starter; replace wiring bulbs, fuses, and switches.

Service the air conditioning and heating system; replace compressors, condensers, heater cores, valves, hoses and blower motors.

Tune up engines, replacing electrical and electronic parts and cleaning and adjusting carburetors.

Repair and replace such components as generators, distributors, relays, lights and switches.

Repair, adjust and replace brake systems including disc, hydraulic and air brakes.

Assist in the purchasing of equipment maintenance parts and materials; clean and care for tools and equipment.

Perform regularly scheduled preventative maintenance, repairs and safety checks on a variety of County vehicles and equipment.

Maintain work, time, and material records.

Perform related duties as assigned.

#### QUALIFICATIONS:

##### Knowledge of:

Tools, equipment, and procedures used in the overhaul, repair, and adjustment of gas and diesel powered equipment.

Operation and care of internal combustion engines and hydraulic equipment.

Methods, materials, equipment and tools used in welding and fabrication work.

Operating and repair characteristics of a wide variety of County owned equipment.

Principles of supervision and training.

Safe work practices.

##### Ability to:

Operate and care for internal combustion engines and hydraulic equipment.

Use a variety of tools and equipment with skill.

Analyze, diagnose and repair mechanical, fuel and electrical problems.

Perform journey level equipment mechanical work including the trouble-shooting of equipment for both major and minor repairs work.

Maintain records.

Work independently in the absence of supervision.

Understand and follow oral and written instructions.

Establish and maintain cooperative-working relationships with those contacted in the course of work.

Provide lead supervision, training, and direct the work of a crew of mechanics.

Communicate clearly and concisely, both orally and in writing.

Experience and Training Guidelines:

Any combination of experience and training that would likely provide the required knowledge and abilities is qualifying. A typical way to obtain the knowledge and abilities would be:

Experience:

Four years of experience performing in the maintenance of heavy construction equipment and/or automotive vehicles, preferably both diesel and gas powered OR three years experience as a Public Works Mechanic III.

Training:

Formal or informal education or training which ensures the ability to read and write at a level necessary for successful job performance including specialized training in maintenance and repair of gas and diesel powered equipment and vehicles.

License or Certificate:

Possession of, or ability to obtain, an appropriate, valid California driver's license.

**PHYSICAL DEMANDS**

Must possess mobility to work in a standard shop setting and use and operate a variety of tools, power tools, equipment and machinery; to operate a motor vehicle and drive on surface streets; to identify mechanical issues, to identify and locate parts and repair tools/equipment, to inspect, analyze, and diagnose problems with automobiles, trucks, and a variety of gasoline and diesel powered maintenance

and construction equipment; strength, stamina and mobility to perform medium to heavy physical work; vision to read printed materials and a computer screen; color vision to read various dials, gauges, and identify color-coded cables and wires; and hearing and speech to communicate in person and over the telephone. The job involves walking and working on slippery or uneven surfaces. Positions in this classification bend, stoop, kneel, reach, and climb to perform work. Employees must possess the ability to lift, carry, push, and pull materials and objects, up to 100 pounds occasionally and up to 50 pounds frequently, as necessary to perform job functions.

#### WORKING CONDITIONS

Employees primarily work in the centralized maintenance shop and are exposed to loud noise levels, vibration, confining workspace, chemicals, dust, paint fumes, mechanical and/or electrical hazards, grease, oils, solvents, machinery with extremely hot surfaces and/or moving parts, and moving objects or other vehicles. Employees may interact with upset staff when trying to diagnose and/or resolve an equipment related problem. Employees may be required to work on evenings, weekends, and holidays and participates in after-hours emergency response and on-call and callback assignments.