COUNTY OF SOLANO

EQUIPMENT MECHANIC

Rev. 11/00

DEFINITION

Under direction, makes mechanical repairs to light and heavy equipment; performs related duties as required.

DISTINGUISHING CHARACTERISTICS

This is a journey level equipment mechanic class performing a wide variety of mechanical repairs to County equipment both in the shop and in the field. Incumbents can specialize in a particular type of repair or equipment and may be assigned as a mobile "roving" mechanic. The class is distinguished from Senior Equipment Mechanic by the latter's responsibility for supervision of a small satellite garage.

EXAMPLES OF DUTIES

Duties may include but are not limited to the following:

1. Inspects equipment for mechanical failures, diagnosing mechanical troubles and making all types of mechanical repairs either in the field or in the shop; repairs engines by tuning, overhauling or replacing components.

2. Repairs, overhauls or replaces standard or automatic transmission parts including clutches and drive shafts; diagnoses and repairs front and rear axles including all gears and bearings; repairs fuel system components including carburetors, fuel pumps, filters, hoses and emission controls, using testing equipment.

3. Diagnoses and repairs brakes by inspecting, overhauling or replacing brake shoes, springs, hardware, wheel cylinders and related parts in disc and air brake systems, turns and trues brake drums and rotors using brake lathe; repairs hydraulic systems on specialized equipment.

4. Inspects and repairs suspension in steering systems, aligning front and rear suspensions as needed; installs new wiring, repairing or replacing lights, horns, flashers, and electronic emissions control systems; repairs air conditioning systems.

5. Fabricates special add-on equipment or tools; inventories and cleans hand tools and power tools; operates all types of shop tools including small hand tools, electrical and acetylene welding devices, and computer analyzers; cleans and maintains shop area and shop equipment.

EXAMPLES OF DUTIES (Continued)

6. Maintains record of repairs performed and time charged to repairs; may retrieve disabled vehicles and equipment and tow them to the shop for repairs; road tests repaired equipment.

QUALIFICATION GUIDELINES

Education and/or Experience

Considerable equipment repair experience which includes all types of repairs on heavy and automotive equipment and which demonstrates possession of and competency in requisite knowledge, skills and abilities. The following is the required experience to qualify for the position:

Three years full-time professional experience performing engine repairs on automotive equipment and /or heavy equipment.

Knowledge/Skills/Abilities

Considerable knowledge of the techniques, tools and equipment used in the maintenance and repair of mobile equipment; repair tools, instruments and equipment; proper procedures in uses of power and hand tools in the repair and reconditioning of mobile equipment; engines, chassis, new units; engine emissions control requirements.

Skill in repairing equipment in a variety of shop and field conditions.

Ability to identify and analyze mechanical problems and implement repairs; communicate effectively both verbally and in writing; establish and maintain cooperative working relationships; demonstrate tact and diplomacy; recognize and respect limit of authority and responsibility; troubleshoot, diagnose and repair all components; read and understand manuals, diagnostic charts and specifications; use special equipment, gages, meters, and tools used in the equipment repair trade; improvise and make repairs under adverse field conditions; follow safe working procedures; follow oral and written instructions and prepare simple reports; identify, analyze, and properly adjust engine emissions control equipment.

SPECIAL REQUIREMENTS

Possession of, or ability to obtain, a valid Class C California Driver's License is required. **Possession of, or ability to obtain, a valid Class B California Driver's License with proper endorsements may be required depending on assignment.**

SPECIAL REQUIREMENTS (Continued)

Independent travel is required.

Incumbents must be able to work in a noisy environment and be able to perform heavy manual labor associated with equipment repair tasks. Incumbents must work outdoors in all types of weather conditions and in an environment which may include exposure to a variety of fumes from automotive equipment and solvents.

Positions allocated to this class may require special smog, light, or brake license issued by the State of California.

Incumbents and candidates applying for positions in this class may be subject to, depending on job assignment, drug and alcohol testing as required under the Federal Omnibus Transportation Employee Testing Act of 1991. Testing includes post-accident and pre-employment, as well as random and reasonable suspicion testing as required by law.

10/23/00

Department Head Date

APPROVED

11-8 2000

Solano County Civil Service Commission

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