

MECHANIC

*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.*

JOB OBJECTIVES

Under direction, to perform skilled mechanical work involved in diagnosing, repairing and maintaining a variety of mechanical, hydraulic and electrical systems on light and heavy gasoline and diesel power-driven vehicles and equipment; to overhaul, repair and adjust engines, transmissions and related vehicle system; and to perform a variety of technical tasks relative to assigned area of responsibility.

ESSENTIAL FUNCTION STATEMENTS

The following tasks are typical for positions in this classification. Any single position may not perform all of these tasks and/or may perform similar related tasks not listed here:

Perform skilled mechanic duties involving troubleshooting, diagnosing and repairing gasoline and diesel powered automotive, heavy and light construction and other power-driven equipment.

Inspect, diagnose, repair and adjust a variety of systems on light and heavy equipment and vehicles including computer control systems, fuel injection systems, anti-lock brake systems, electrical systems, hydraulic systems, air conditioning systems, fuel management systems, transmissions, steering and suspension components, clutches and engine sensors.

Inspect motorized and mechanical equipment; diagnose problems and determine extent of necessary repairs; perform routine preventive maintenance.

Overhaul, repair and adjust engines, transmissions, clutches, differentials, carburetors, generators, distributors and pumps; fit and adjust bearings; install axles and wheels.

Diagnose, maintain and repair electrical system components, ignition systems, alternators, high voltage power generators, starters and batteries.

Diagnose and repair front and rear drive axles, drive train components, belts, gears and chain drives.

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

Tune up engines by replacing ignition parts, recondition and adjust carburetors, fuel injection systems and propane fuel systems; repair and maintain emission control systems.

Repair, adjust and replace brake systems including wheel cylinders, masters cylinders, disc pads, machine drums and rotors, and hydraulic and air brakes.

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Mechanic (Continued)

Weld, fabricate and assemble parts and equipment for City automotive and heavy equipment; fabricate and modify tools as needed.

AUXILIARY FUNCTION STATEMENTS

Maintain and repair shop equipment; clean and maintain assigned work area; dispose of hazardous materials according to established procedures.

Follow all safety rules and procedures established for work area.

Perform related duties and responsibilities as required.

QUALIFICATIONS

Knowledge of:

Operations, services and activities of a comprehensive vehicle, light and heavy equipment maintenance and repair program.

Current methods, equipment, tools and materials used in the overhaul, repair and maintenance of gas and diesel powered equipment and vehicles.

Operating and repair characteristics of a wide variety of light and heavy equipment systems including electrical, hydraulic, braking, air conditioning, fuel, ignition, steering, suspension and transmission.

Operations and care of internal combustion engines.

Procedures of preventive maintenance related to automotive, heavy and light construction equipment.

Methods and techniques of performing diagnostic troubleshooting services.

Methods and techniques of metal fabrication and welding.

Operational characteristics of hydraulic systems.

Shop mathematics.

Occupational hazards and standard safety practices.

Pertinent Federal, State and local codes, laws and regulations.

Ability to:

Independently perform difficult mechanic work including diagnosing, troubleshooting and repairing the full range of vehicles, equipment and components.

Use and operate a variety of tools, and testing and mechanical equipment in a safe and effective manner.

Accurately diagnose mechanical, electrical and hydraulic repair needs and estimate the cost and time of repairs.

Operate a variety of mechanical equipment in a safe and effective manner.

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Mechanic (*Continued*)

Perform gas and electric welding activities.

Perform safety inspections and identify safety hazards.

Read and comprehend complex written repair manuals blueprints, schematics and other written materials.

Understand and carry out oral and written instructions.

Communicate clearly and concisely, both orally and in writing.

Establish and maintain effective relationships with those contacted in the course of work.

Education and Experience Guidelines

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

Education:

Equivalent to the completion of the twelfth grade supplemented by specialized training in vehicle or equipment maintenance and repair or a related field.

Experience:

Three years of increasingly responsible automotive and equipment maintenance and repair experience.

License or Certificate

Possession of an appropriate, valid Class A commercial driver's license with proper endorsements.

Possession of an appropriate, valid Flagging card.

PHYSICAL DEMANDS AND WORKING CONDITIONS

The physical demands herein are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform these essential job functions.

Environment: Shop environment; exposure to noise, dust, grease, smoke, fumes, gases.

Mobility: Heavy, moderate or light lifting; walking, standing or sitting for prolonged periods of time; operating motorized equipment and vehicles.

Vision: Visual acuity to diagnose and perform mechanical repairs.

Other Factors: Incumbents may be required to work extended hours including evenings and weekends. Incumbents may be required to travel outside City boundaries to attend meetings.