

## **AUTOMOTIVE MECHANIC**

### **DISTINGUISHING FEATURES OF THE CLASS:**

The work involves responsibility for performing skilled repairs and adjustments to a variety of automotive, motor, heavy and stationary equipment including both diesel and gasoline powered vehicles and equipment. An incumbent maintains and repairs fuel injection and supercharging systems common to diesel engines as well as making overall repairs to a wide range of heavy equipment commonly used in public works construction and maintenance. An incumbent also maintains repairs and inspects vehicles operated by other city departments. This position differs from that of Head Mechanic by virtue of the fact that an incumbent performs a less high level of technical repair and maintenance work than does the Head Mechanic. Also, unlike the Head Mechanic, an incumbent is not responsible for overseeing the work of other Mechanics and is not involved either in recommending vehicle replacement or record keeping that allocates repair and maintenance costs to various city departments. The work is performed under the guidance of a Head Mechanic as well as the general supervision of the Superintendent of Public Works with some freedom allowed for exercising independent judgement in carrying out the work. An incumbent exercises no supervision, however, he or she may instruct Automotive Mechanic Helpers in diesel and gasoline equipment repair and adjustment. Does related work as required.

### **TYPICAL WORK ACTIVITIES:**

Performs skilled operations in repairing, adjusting and overhauling diesel and gasoline powered motor equipment including automobiles, trucks, front-end loaders, bulldozers and backhoes;

Repairs and replaces oil and fuel pumps, alternators, fuel injectors, superchargers and water pumps;

Replaces engine block cylinder liners;

Installs replacement main bearings and crankshafts;

Adjusts connecting rods and bearings;

Diagnoses trouble and repairs or overhauls, brakes, transmissions, clutches, electrical and hydraulic systems, front and rear axles;

Adjusts steering mechanisms, aligns wheels and repairs vehicle bodies and frames;

Inspects vehicles in accordance with the NYS Department of Motor Vehicle regulations;

Maintains and repairs sand spreaders, arc welders, portable compressors, and other power equipment;

Operates a variety of vehicles, motor, heavy and stationary equipment to determine problems and insure repairs are made properly;

**AUTOMOTIVE MECHANIC** – contd.

Maintains inspection and service records;

Mounts and dismounts snowplow blades and other auxiliary equipment;

May use an arc welder or acetylene torch to make repairs;

May instruct others in diesel and gasoline engine servicing and maintenance procedures.

**FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS:**

Good knowledge of the principles and practices related to diesel and gasoline engines and methods associated with their maintenance, adjustment and repair;

Good knowledge of terminology, tools, equipment and safety precautions associated with automotive and equipment maintenance, adjustment and repair;

Good knowledge of the safe and efficient operation and maintenance of repair shop equipment;

Working knowledge of machine shop procedures;

Ability to make repairs to diesel and gasoline powered vehicles and equipment;

Ability to accurately diagnose mechanical, electrical and hydraulic problems for gasoline and diesel powered equipment,

Ability to read and interpret technical motor equipment repair manuals, circuit diagrams and blueprints;

Ability to understand and follow oral and written instructions;

Ability to operate motor and heavy equipment safely and in accordance with vehicle and traffic laws;

Ability to weld and operate machine shop equipment;

Ability to maintain records related to equipment inspection and repair;

Physical condition commensurate with the demands of the position.

**MINIMUM QUALIFICATIONS:** Either:

(a) Two (2) years experience performing skilled repairs and adjustments to a variety of automotive, motor, heavy and stationary equipment including both diesel and gasoline powered vehicles and equipment; or

**AUTOMOTIVE MECHANIC** – contd.

(b) Graduation from a high school technical or vocational program in motor equipment mechanics and one (1) year of experience as defined in (a).

**NOTE:** Successful completion of a certified training course in diesel engine repair offered by a New York State approved technical training institute may be substituted for one (1) year of experience described above.

**SPECIAL REQUIREMENTS:**

Possession of a valid New York State Department of Motor Vehicles license appropriate to the vehicles or equipment operated.