

## **MECHANIC**

### **DEFINITION**

Under direction, performs skilled mechanical work involving the maintenance, repair and servicing of various types of motor vehicles and/or motorized construction equipment; does other related work as required.

### **EXAMPLES OF WORK:**

Repairs engines and components, power trains, suspension systems, and other mechanical units of such motor vehicles as automobiles, vans, and/or such construction equipment as trucks, buses, bulldozers, tractors, road graders, power shovels, or similar equipment. Obtains description of mechanical problems from driver of vehicle and/or test drives the vehicle or uses testing equipment such as motor analyzers, spark plug testers, or compression gauges to locate and identify the problem.

Removes, cleans, or replaces defective parts such as spark plugs, wheel cylinders, mufflers, tail pipes, or brake shoes.

Makes settings and adjustments such as setting distributors and voltage regulators, points, gapping spark plugs, setting engine idle and timing, and adjusting brakes.

Removes units such as engine, transmission, or differential using wrenches and hoist.

Repairs or replaces parts such as pistons, rods, gears, valves, and bearings using mechanic's hand tools.

Overhauls or replaces carburetors, blowers, generators, distributors, starters, and pumps.

Rebuilds parts such as crankshafts and cylinder blocks using lathes, shapers, drill presses, and welding equipment.

Rewires ignition system, lights, and instrument panel. Relines and adjusts brakes, aligns front end, repairs or replaces shock absorbers, and solders leaks in radiator.

Disassembles and rebuilds components by fitting and installing needed parts such as rings, pistons,  
Adjusts ignition timing and valves and adjusts or replaces spark plugs and other parts to ensure efficient engine performance.

Installs air conditioners and service components such as compressors and condensers.

Adjusts brakes, replaces brake linings and pads, repairs hydraulic cylinders, and makes other repairs to the brake system.

Cleans radiators, locates and solders leaks, and installs new radiator cores in vehicles.

Overhauls and repairs electrical systems and components.

Repairs and replaces gear trains, couplings, hydraulic pumps, and other components of automatic transmission systems.

Overhauls, rebuilds, repairs, and services gasoline, and other types of combustion engines, automatic and non-automatic transmissions, heavy duty drive line systems, hydraulic utility systems, and controls.

Repairs large and powerful 12-cylinder engines with pistons which directly power multiple hydraulic and pneumatic systems and large multiple, interconnected engine systems.

Overhauls and rebuilds transmissions such as those which have braking, steering, and differential systems mechanically integrated with the transmission.

## **REQUIREMENTS:**

### **TRAINING**

Successful completion of one (1) year of training in automotive technology at an accredited community college or vocational school.

### **EXPERIENCE:**

Two (2) years of experience in the maintenance and repair of various types of motor vehicles and/or construction equipment such as bulldozers, tractors, cranes, road graders, power shovels, or similar equipment.

**NOTE:** Applicants who do not possess the required year of formal training may substitute one (1) additional year of experience as outlined above.

**NOTE:** An Automotive Service Excellence (ASE) Certification in one of the following specialties from the National Institute for Automotive Service Excellence may be substituted for the formal training: A-1 Engine Repair, A-6 Electrical/Electronic Systems, A-8 Engine Performance.

### **LICENSE:**

Appointees will be required to possess a driver's license valid in New Jersey.

Appointees may be required to possess a valid Commercial Driver's License (CDL) and applicable endorsements for the class and type of vehicle being operated.

In accordance with Federal regulation 82:40, appointees responsible for the repair or servicing of motor vehicle air conditioners will be required to obtain and maintain a valid Air Conditioning and Refrigeration Technician, commensurate with the type of equipment serviced, issued by the Federal Environmental Protection Agency.

In accordance with the New Jersey Occupational Safety and Health Administration regulation 29 CFR 1910.178(l) (1), appointees responsible for the operation of industrial trucks (powered forklifts) will be required to obtain and maintain a current certification as a Powered Industrial Truck Operator issued by the New Jersey Occupational Safety and Health Administration. Appointees may be required to successfully complete re-training.

In accordance with N.J.A.C 13:20-45.16, appointees responsible for performing emissions repairs to gasoline-fueled vehicles will be required to successfully complete the Emissions Technical Educational Program, and maintain a current certification as an Emissions Repairer Technician.

Appointees will be required to possess ASE certifications for the following:

Alternate Fuel  
Certification in Suspension and Steering.  
Certification in Brake Repairs.  
Engine Repair A-1 and Engine Performance A-8

**SALARY: \$48,714**

Please submit cover letter, resume to Sachina Evans, Personnel Officer at [SaEvans@camdennj.gov](mailto:SaEvans@camdennj.gov) or [Personnel@camdennj.gov](mailto:Personnel@camdennj.gov).