

Heavy Equipment Mechanic Tompkins County

Department: Various Agencies Throughout Tompkins County
Classification: Non-competitive
Labor Grade: Blue Collar Grade 11 for County
Approved: CA 043-94, 04/19/94, 9/22
Revised: 01/01; 04/01; 09/04; 04/07; 02/16; 01/18; 02/19; 2/24
By: HB, Deputy Commissioner of Human Resources

MINIMUM QUALIFICATIONS:

- (a) Graduation from a regionally accredited or New York State registered two year technical school or community college with an Associate's Degree or certificate in heavy equipment technology or mechanics **AND** one year of experience in heavy vehicle repair performing repair and maintenance; **OR**
- (b) Graduation from a high school technical or vocational program in automotive mechanics **AND** three years of experience in a heavy equipment repair shop performing repair and maintenance of heavy equipment; **OR**
- (c) Five years experience in a heavy equipment shop performing repair and maintenance of heavy equipment .

Tompkins County is Committed to Equity and Inclusion. We encourage those with similar values to apply.

SPECIAL REQUIREMENTS

1. Must possess a NYS Department of Motor Vehicle Inspection Certification Group I and Group II within six (6) months of appointment and maintain such license for the duration of employment.
2. At the time of application, the successful candidate must have completed an air brake service/inspection apprenticeship program, **OR** a vehicle or brake manufacturer training program designed to train students in air brake inspection and maintenance **OR** demonstrate in your application work history at least one year of experience in the inspection and repair of air brake systems.
3. Must furnish own hand tools and toolbox as required (except at the Town of Ithaca).
4. Must obtain a New York State Class A or B driver's license with an air brake endorsement within one (1) year of appointment and maintain such license for the duration of employment. Employees operating Motor Equipment or Heavy Equipment on streets or roadways must possess a class A or B commercial drivers license and must be enrolled in the Tompkins County Drug and Alcohol Testing Consortium.

DISTINGUISHING FEATURES OF THE CLASS

This is skilled work primarily responsible for the efficient performance of a variety of public works equipment repair, heavy equipment repair, machinist tasks and/or heavy equipment operation as needed. This class is distinguished from other public works employees by the ability to perform repairs at the journey level (i.e. complete rebuild of gas and diesel motors, transmissions, differentials, air brake systems, advanced hydraulic and electrical systems). General instructions are received from a higher-level employee regarding what tasks to perform. Considerable autonomy and independent judgment is required to plan and carry out the details of the work assigned. May lead the work of other shop personnel as assigned. The incumbent will perform all related duties as required.

TYPICAL WORK ACTIVITIES:

- Diagnose and trouble shoot for preventative maintenance and/or equipment failure; Performs skilled operations in making general repairs on motor equipment such as automobiles, trucks, tractors, sweepers, bulldozers, graders, rollers, backhoes, power saws and other public works equipment;
- May perform major engine overhauls on gasoline and diesel engines such as installing connecting rods and bearings, sleeve kits, pistons and rings, grinding valves, etc.;

- Repairs or overhauls brake systems, differentials, transmissions, front and rear axles, suspension systems, steering systems, hydraulic systems and electrical systems;
- Performs welding and fabrication work on heavy equipment;
- Operates machine shop equipment, including lathes, grinders, torches, welders, electronic, and other diagnostic test equipment and such other machines and equipment used in the department;
- Submits daily written reports and shop repair orders;
- In the Towns and Villages, an incumbent may be required to operate motor equipment, heavy equipment or serve as general labor in support of departmental operations as the needs of the service require.

KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS:

- Thorough knowledge of standard automotive repair methods and. of the terminology and tools of the trade;
- Skill in the use and care of automotive and public works equipment servicing tools and equipment;
- Ability to make journey level repairs to automotive and other mechanical equipment;
- Ability to work from plans, specifications, electrical and hydraulic schematics, rough sketches and oral instructions;
- Ability to lift heavy objects;
- Ability to layout and supervise the work of others;
- Ability to get along with others;
- Ability to perform activities involving considerable strenuous effort;
- Ability to operate a wide variety of motor equipment and heavy equipment;
- Willingness to use and operate equipment, tools and machines;
- Willingness to tolerate odors, dirt, exposure to solvents, oils, work in all kinds of weather conditions, and make repairs on job sites and roadways;
- Good coordination, dexterity;
- The employee's physical and mental condition shall be commensurate with the demands of the position; and Must be willing and able to work overtime and respond to emergency work as needed.
- Town of Ithaca - Assigned to be a Class C petroleum bulk storage (PBS) operator and responds to emergency fuel spills as directed by the facilities Class A or B operator.
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ESSENTIAL FUNCTIONS - PHYSICAL, MENTAL AND ENVIRONMENTAL

Please note that these are illustrative only and do not attempt to address every type of physical, mental or environmental factor that may exist when performing the typical work activities outlined above.

Physical: The employee is routinely required to stand, walk, kneel, stoop, crouch, bend, reach and twist multiple times during an eight-hour, or occasionally longer, work day. He or she must push or pull up to 700 pounds (with mechanical or human assistance), lift, carry and/or hoist overhead as much as 60 pounds. An individual in this role is required to have sufficient visual and auditory acuity to be able to perform acceptably and avoid risks and dangers to him or herself and co-workers. He or she is required to speak and communicate sufficiently to avoid risks and dangers to him or herself and co-workers. The employee must be able to firmly grasp tools, equipment and machinery parts. He or she is required to have fine motor skills and sufficient hand/eye coordination necessary to manipulate, repair and install large and small parts. Head, hands, arms, legs and feet must all work together in coordination in order to enable an individual to perform the essential functions of this job.

Environmental: The employee must possess a psychological makeup and the interpersonal skills necessary for him or her to work cooperatively with others. He or she must be able to walk on slippery or uneven surfaces, have the ability to work alone, both inside and outside, and may be exposed to dust, dirt, grease, humidity, excessive heat (occasionally above 100°) and excessive cold (often below 32°). He or she must have the full physical ability to operate and drive all kinds of heavy and light equipment as well as trucks, most with a clutch and standard transmission configuration, some with many gear options.

