

## **PUBLIC WORKS FIELD MAINTENANCE MECHANIC**

### **DEFINITION**

Inspects, maintains and repairs storm and sanitary sewers and related lift station pumps, motors, generators and stationary equipment; maintains and repairs heavy and light rolling stock required for maintenance of the storm and sanitary sewers; operates and maintains a variety of hand, power and shop tools; performs related work as assigned.

### **SUPERVISION RECEIVED AND EXERCISED**

The Public Works Field Maintenance Mechanic receives direction from the Public Works Maintenance Supervisor. No direct supervision is provided, however, direction and work instruction and/or review may be provided to an assistant on a project basis. part-time or volunteer staff on a project basis. No ongoing direct supervision is provided.

### **CLASS CHARACTERISTICS**

This is a skilled journey-level class that performs diagnosis, maintenance and repair of storm and sanitary sewers and associated lift stations and diagnosis, maintenance and repair of the variety of vehicles required to maintain the underground lines and associated mechanical and electrical appurtenances. The incumbent troubleshoots a variety of mechanical and vehicle problems and performs both field and shop repairs. This class is distinguished from other public works maintenance classes by the specialized knowledge and skill required for maintenance of City lift station and sewer equipment in addition to trucks and heavy equipment.

### **EXAMPLES OF DUTIES** (Illustrative Only)

- Inspects, cleans, maintains and performs repairs to storm and sanitary sewers and related appurtenances.
- Drives and operates sewer cleaning equipment, such as a rodder, hydro-vactor, street sweeper and other power cleaning equipment; inspects and performs repairs on such equipment.
- Cleans and maintains storm drains.
- Operates mobile television equipment to inspect underground storm and sanitary sewer lines; reports the need for major underground replacement or repair.
- Marks underground lines according to USA guidelines for construction and maintenance work performed by the City and other public and private agencies.
- Inspects, diagnoses and performs repairs to gasoline and diesel engines, including inspection and replacement of broken or worn parts and tune-ups as required.
- Inspects, diagnoses problems and performs repairs to pumps, motors, valves, piping and other mechanical and electrical components common to sanitary sewer lift stations for the wastewater collection system.
- Performs servicing, preventive maintenance and minor repair on vehicles, heavy equipment, sweepers, compressors and other mobile equipment; reports the need for major maintenance.
- Reads and interprets manuals, drawings and specifications; estimates materials and parts required for repairs; maintains an inventory of parts and supplies; orders and picks up parts and supplies required to complete the work.

- Uses a variety of hand and power tools and test equipment in the course of the work.
- Maintains accurate records of work performed, supplies and materials used.
- Assists with other public works maintenance work as required, including driving vehicles and equipment.

## **QUALIFICATIONS**

### **Knowledge of:**

- Principles and practices of inspecting, cleaning and repairing underground storm and sanitary sewer lines and related appurtenances.
- Principles and practices of inspecting, testing, diagnosing problems and performing mechanical repairs to pumps, motors, generators, electrical circuits and control instrumentation.
- Operational and maintenance principles, practices, tools and materials used in the maintenance and repair of gasoline- and diesel-powered trucks and construction equipment.
- Operation, maintenance and calibration of a variety of hand, power and shop tools and equipment common to the trade.
- Safety equipment and practices related to the work.
- Applicable codes and regulations.
- Shop arithmetic.
- Basic computer applications related to the work.
- Basic record keeping practices.

### **Skill in:**

- Inspecting, cleaning and repairing underground storm and sanitary sewer lines and related appurtenances.
- Inspecting, testing and performing mechanical repairs to pumps, motors, generators and electrical circuits and control instrumentation.
- Servicing and performing preventive maintenance and minor repair on a variety of trucks and heavy construction equipment.
- Operating, maintaining and calibrating a variety of hand, power and shop tools related to the work.
- Estimating time, materials and supplies necessary to complete repairs.
- Reading and interpreting manuals, specifications and drawings.
- Maintaining an inventory of required parts and supplies.
- Making accurate arithmetic calculations.
- Maintaining accurate logs and records of work performed.
- Establishing and maintaining effective working relationships with those contacted in the course of the work.

**Education and Experience:**

Equivalent to graduation from high school and two years of journey-level experience in the maintenance and repair of pumps, motors, generators and related equipment and/or vehicle and construction equipment maintenance and repair. Technical training in mechanical and/or electrical maintenance and repair is desirable.

**Licenses:**

Must possess and maintain a valid California class C driver's license and a satisfactory driving record. Must possess or obtain a class B driver's license prior to completion of the probationary period.

**Working Conditions:**

Works inside and outside. . Must be available for regular standby assignments and work off-hours shifts and emergency overtime as required. Must be willing to work out of doors in all weather conditions and with exposure to potentially hazardous chemicals and conditions.

**Physical Demands:**

Must possess strength, stamina and mobility to perform heavy physical work on equipment, work in confined and difficult spaces to perform needed repairs and to lift up to 90 pounds; vision to read printed materials and a computer screen; color vision to distinguish electrical and electronic components; and hearing and speech to communicate in person and over the telephone or radio.