



POWER AND MECHANICAL WORKER

JC: MA545
PG: 301
FLSA: Non-Exempt

BU: 01 (SEIU)
Created: January 1988
Revised: October 2021

*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.*

DEFINITION

Under general supervision, performs skilled installation, preventive maintenance, repair and modification of mechanical, electro- mechanical and HVAC equipment and systems found in a wide variety of District facilities; and performs related duties as assigned.

CLASS CHARACTERISTICS

This is a journey level classification performing the full scope of skilled installation, maintenance and repair work of varied heavy stationary and portable mechanical and related equipment found in a large industrial or commercial setting. This class is distinguished from all other journey level mechanical maintenance classes in that the work is related specifically to plant equipment maintenance and repair rather than to fleet or revenue vehicle mechanical maintenance and repair.

REPORTS TO

Assistant Superintendent of Power and Mechanical Maintenance or designee

EXAMPLES OF DUTIES – *Duties may include, but are not limited to, the following:*

1. Following a pre-established schedule, performs preventive maintenance, testing and adjustment of all mechanical and electro-mechanical equipment and components such as entrance doors and gates, cranes, pumps, valves and related controls, compressors, turntables and vehicle washing equipment and steam cleaners.
2. Installs, maintains, repairs and modifies a wide variety of heating and refrigeration equipment; maintains and adjusts associated electrical, electronic, pneumatic and hydraulic control systems.
3. Inspects equipment for maintenance needs, makes basic repairs to ensure safety, and places barricades or signs to ensure patron safety.
4. Troubleshoots and diagnoses problems in a variety of mechanical and electro/mechanical equipment and performs repairs as required.
5. Suggests improvements and works with engineering and other maintenance staff regarding modifications.
6. Uses diagnostic test equipment and precision measuring devices in the course of the work.

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7. Reads and interprets diagrams, engineering drawings, manuals, schematics and work orders.
8. Measures, tests and inspects completed work to confirm adherence to specifications.
9. Maintains records of work performed and parts and materials used.
10. Operates District vehicles to reach equipment to be serviced.
11. May operate cranes or other equipment as required for repair.
12. Follows proper safety procedures; answers patron questions regarding work activities.
13. Requests supplies through supervisor or from stock.

QUALIFICATIONS

Knowledge of:

- Methods, equipment, tools and materials used in the installation, maintenance and repair of varied industrial, mechanical and electro/mechanical equipment and systems
- Methods, equipment, tools and materials used in the installation, maintenance and repair of HVAC equipment
- Basic electrical and electronic principles as related to control devices for such equipment
- Use and care of power and hand tools of the trade; use and operation of measuring and testing devices
- Troubleshooting and diagnostic techniques
- Shop arithmetic as required for the mechanical trade
- Safe working practices

Skill/ Ability in:

- Diagnosing operational problems in heavy industrial, mechanical, electro/mechanical and HVAC equipment and systems and determining parts and labor required for repair
- Performing preventive maintenance on mechanical systems and equipment
- Reading and interpreting engineering drawings, wiring diagrams, manuals and work orders
- Working effectively both independently and with a crew; understanding and following oral and written directions
- Maintaining accurate records of work performed and materials used
- Establishing and maintaining effective working relationships with those contacted in the course of the work

MINIMUM QUALIFICATIONS

Education:

Possession of a high school diploma, GED or recognized equivalent. Completion of an apprenticeship as a machinist, millwright or related mechanical trade.

Experience:

One (1) year of (full-time equivalent) journey level experience in the installation, maintenance or repair of varied industrial mechanical systems and equipment.

Other Requirements:

Must possess and maintain a valid California Class C driver's license and have a satisfactory driving record.

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Must be able to wear respiratory protective equipment during the performance of assigned duties in accordance with the District Respirator Program.

Must possess sufficient physical ability to:

- Work in confined spaces;
- Lift and carry up to 50 pounds;
- Walking, standing, twisting, stooping and bending;

Must be willing to work off-hours shifts and occasional emergency overtime.

WORKING CONDITIONS

Environmental Conditions:

Field environment: exposure to heat, cold, dust, noise and confined spaces.

Physical Conditions:

Requires maintaining physical condition necessary for walking, standing, twisting, stooping and bending, wearing a respirator and lifting and carrying up to 50 pounds.

BART EEO-1 Job Group: 5000 – Skilled Workers
Census Code: 7330 – Indust/ Refrac Mach Mechanics
Safety Sensitive: Yes