**Class Summary**

The responsibilities of this classification include performing semi-skilled mechanical tasks to repair, maintain, overhaul, and install a variety of complex machinery at wastewater treatment plant facilities. Incumbents apply entry-level knowledge of mechanical techniques and principles and are responsible for assisting journey-level mechanics.

**Distinguishing Characteristics**

This is the first level within a three-level classification series. The Industrial Maintenance Worker classification is distinguished from the Industrial Maintenance Mechanic classification in that incumbents in the Industrial Maintenance Mechanic perform the full range of responsibilities of a journey-level mechanic independently with minimal supervision.

**Examples of Duties**

1. Assist journey-level workers in the maintenance, repair, and overhaul of various complex mechanical machinery, including pumps, motors, grinders, blowers and compressors, centrifuges, gearboxes, hydraulic systems, and gravity belt thickeners; maintain accurate records of maintenance and repairs performed.
2. Assist in repairing, maintaining, and installing large plumbing systems used in a wastewater treatment facility.
3. Assist in repairing, designing, or fabricating plant piping and other heavy equipment using welding equipment, cutting torches, and plasma cutters. Under direction, fabricate parts using drill presses, lathes, punches, metal brakes, metal shears, and various shop equipment.
4. Operate a variety of hand, power, and pneumatic tools, including grinders, drill motors, drill presses, band saws, iron workers, table saws, hydraulic presses, concrete saws, core drills, roto hammers, and high-pressure water wands.
5. Assist in using overhead cranes, forklifts, and hoists; remove and install industrial machinery using overhead cranes.
6. Assist in planning heavy equipment repairs using schematic drawings, engineering and computer drawings, operations, and maintenance manuals. Use vendor data and catalogs to order parts, repair equipment, and make modifications.
7. Operate various machine shop equipment, including mills, lathes, and radial drills, to fabricate sleeves, shafts, bushings, and cutters under the direction of journey-level workers.
8. Assist in performing maintenance hole frame and cover replacement duties; raise maintenance hole.
9. Assist in cleaning sewer lines, maintenance holes, and wet wells; read line location blueprints; open maintenance hole covers; set up atmospheric monitors and tests for odors; enter confined spaces to remove debris from lines; remove debris; shovel grit at the bottom of wet well and scrape grease from the wall of wet well. Operate flushing equipment to clean smaller lines using a high-pressure water hose.
10. Perform routine pump station repair work; assist in troubleshooting pumps and other equipment, identify malfunctions, and take corrective action.
11. Assist in installing and monitoring sewer lines' flow meters, air bleeds, and gas flaps.
12. Maintain and repair automated water and wastewater treatment and chemical feed equipment.
13. Perform other duties as assigned.

**Knowledge/Skills**

Knowledge of the use, care, and safe operation of elemental power and hand tools

Knowledge of reading schematic drawings and free-body diagrams

Knowledge of safety practices related to repair and maintenance work

Basic knowledge of plumbing techniques and principles

Basic knowledge of welding techniques and principles

Basic knowledge of math principles and techniques

Basic knowledge of chemical reactions to materials and equipment

Basic knowledge of carpentry techniques and principles to build supports for equipment repair and overhauls

Skill in oral and written communication

Ability to lift and carry equipment up to 50 pounds, work in confined spaces, climb in and out of tanks using ladders, and work around noxious odors and high noise levels

Ability to sustain walking and climbing on even and uneven terrain, climbing stairs and ladders, and working in cramped and awkward positions

Ability to twist, bend, crouch, stoop, and kneel; and physical capacity to maintain such positions for prolonged periods

Ability to work all shift schedules and to report to work during adverse and inclement weather conditions

Ability to effectively engage in and sustain relationships with people from diverse cultures and socio-economic backgrounds

Ability to work independently and as a team member

Demonstrated proficiency with business applications, such as Microsoft Office suite

**Education and Experience Requirements**

Any combination of education and experience that clearly demonstrates the ability to perform the job duties of the position

**Licensing, Certification and Other Requirements**

Washington State Driver’s License

Some licenses, certifications and other requirements determined to be necessary to meet the business needs of the employing unit may be required

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| **FLSA Designation** | Non-Exempt |
| **Service Status** | Career Service |
| **EEO Code** | 7 |
| **Levels within same series** | Industrial Maintenance Worker, Industrial Maintenance Mechanic, and Industrial Maintenance Mechanic Master |
| **Class History** | 02/2007 – Updated content  11/2007 – Updated font and format  10/2008 – Updated  03/2010 – Updated  03/2025 – Updated content |