



## **JOB DESCRIPTION**

### **Wastewater Treatment Plant Operator 1**

#### **MINIMUM QUALIFICATIONS:**

##### **Education and Experience**

High School diploma or GED equivalent, including coursework in algebra, and chemistry AND one year of general mechanical and electrical repair and maintenance experience; OR an equivalent combination of education, training, and experience.

##### **Required Licenses and Certifications:**

- Valid Driver's License with good driving history; Commercial Driver's License (CDL), class B endorsement, valid in Wyoming within 6 months of hire.
- Valid Driver's License with good driving history.
- Must pass Level 1 Wastewater Systems Operator Certification test from Wyoming Department of Environmental Quality (WDEQ) within one year of hire.
- Depending on the needs of the BOPU other job specific training and certifications may be required.
- CPR/AED Certification.

##### **Basic Knowledge of:**

- Federal, state and local laws and regulations governing WR facility operations, including United States Environmental Protection Agency (US EPA) and (WDEQ) standards.
- Federal, state and local safety rules and regulations; Occupational Safety and Health Administration (OSHA) requirements, safe work practices and safety precautions in a treatment plant environment.
- OSHA Material Safety Data Sheets (MSDS) for hazardous and non-hazardous chemicals in the work place.
- BOPU and Division policies and procedures.
- Principles, methods, materials, tools, and equipment used in operation and maintenance of WR facilities.
- Methods, practices, standards and specifications required for compliance with WDEQ regulations.
- Mathematics used in problem solving related to wastewater treatment applications and processes.
- Understanding of process control theory and practical application to Board treatment processes.
- General and specialized tools and equipment used in operation and maintenance of WR facilities.
- Personal computers and related software.

##### **Basic Skill in:**

- Performing maintenance and repair work on mechanical and electrical equipment.
- Maintaining tools and equipment.
- Making routine operating adjustments and repairs to assigned equipment.
- Identifying unsafe conditions and mechanical problems.
- Interpreting and applying technical standards and principles.
- Reading and interpreting gauges, SCADA screens and recording devices.
- Using general and specialized tools and equipment to perform electrical and mechanical repair and servicing tasks.
- Making algebraic calculations.
- Performing laboratory tests.
- Following safe work practices.
- Closely following verbal and written instructions and procedures.
- Establishing and maintaining effective working relationships with co-workers, customers, and the general public.
- Effective verbal and written communications.
- Operating a personal computer utilizing a variety of standard and technical software.

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#### **Working Conditions:**

**Work Environment:** Works shifts (days/evenings/nights), weekends and holidays; position is classified as Essential for Emergency Response and therefore is required to work overtime, on-call and call-back duty to respond to emergencies as requested; work is performed at WR facilities; exposure to safety hazards and dangerous tools and equipment, including water-borne diseases and other biological hazards associated with working in or around raw sewage; works near high-voltage equipment; exposure to a variety of combustible, corrosive and toxic chemicals, and gasses such as, methane, carbon dioxide, hydrogen sulfide, acids, various polymers, alum (aluminum sulfate), sodium hypochlorite and caustics; work is performed indoors and outdoors with exposure to all weather conditions (hot, cold, wet, humid); portions of the plant are hot and may contain offensive odors; confined space entry may be required; plant surfaces can be wet, slippery, and may have open grates.

**Physical Demands:** Moderate physical work requiring ability to stand 20%, walk 60% and sit 20% of the time; occasionally the following requirements are needed: Floor-to-waist lift up to 65 pounds to remove and install gates, lift covers, and polymer bags; two-person-lift up to 147 pounds to lift covers in south primary clarifiers; two-handed-carry up to 51 pounds to lift polymer bags; one-handed-carry up to 31# to carry sample totes and auto samplers; pushing/pulling up to 167 pounds to move bins and open valves; overhead work in standing position is performed when inserting clevis on the debris bin to lift with hoist; Lowered work in a standing or stooping position is performed when maintaining pumps or motors, collecting samples, paddling scum, cleaning weirs, cleaning brushes in rag machine, and cleaning conveyor belts; kneeling and crawling are required on occasion; manual dexterity is required to operate equipment components; squatting to collect samples and for cleaning; climbing stairs and ladders to gain access in and out of buildings and structures; repetitive trunk rotation in standing position to run samples, paddle scum, clean weirs, use weed eater, and shovel snow; balance is required for leaning over fences, and walking on uneven and occasional icy terrain; frequently required to repetitively move arms to open and close valves, grease centrifuge, paddle scum, and during cleaning activities; specific vision abilities required by this job include close vision, distance vision, depth perception, color vision and ability to adjust focus; frequently required to use hands and fingers to handle objects, operate controls and equipment, and to operate a computer and keyboard, constantly required to hear equipment operation and ordinary conversations and to verbally communicate with other staff.