

## **TREATMENT OPERATOR I**

### DEFINITION:

Controls treatment plant machines and equipment to purify and clarify water for human consumption and for industrial use.

### JOB DUTIES:

The list below is intended as illustrations of the various types of work performed. These examples of work performed are neither restricted to nor all-encompassing of the duties to be performed under this job title.

- Collecting water samples and conducting tests to determine water quality meets the standards and regulations of the Leavenworth Waterworks and KDHE.
- Monitor gauges and meters; record necessary data.
- Operates to the best possible standards to provide an uninterrupted water supply.
- Annual and daily cleaning of water plants.
- General water plant and grounds maintenance.
- Records data, such as residual content of chemicals, water turbidity, water pressure, plant and distribution storage and flow levels.
- Repairs and lubricates machines and equipment, using hand tools and power tools.

### QUALIFICATIONS:

#### Knowledge of:

- The chemical and physical processes used to treat potable water.
- Basic algebra and chemistry and being able to apply the knowledge to the water treatment process.
- Standard water treatment operating procedures.
- Knowledge of disinfection concepts and procedures (e.g., chlorine contact time, residual, demand, dosage)
- Skill to replace chlorine containers and adjust gas chlorinators.
- Knowledge of water-borne diseases
- Knowledge of the chlorine disinfection process, including free/ combined chlorine and chloramines
- Knowledge of the difference between disinfection and sterilization.
- Basic knowledge of computer HMI's
- Basic knowledge of Microsoft software; excel and word
  
- Ability to:
- Determine processing and treatment requirements.
- Collect and analyze samples at stages of processing to determine the effectiveness of the treatment process and make any adjustments that are necessary.
- Utilize specialized equipment, chemical feed systems, and various types of pumps, electronic equipment, and laboratory equipment.

- Utilize computer workstations for data entry, data interpretation, KDHE reporting and on-line calibration monitoring equipment.
- Identify problems and provide solutions to ensure proper and efficient operation of the treatment plant.
- Maintain effective working relationships with management, coworkers, and the general public.
- Understand basic algebra and chemistry and being able to apply the knowledge to the water treatment process.
- Obtain the knowledge and training to procure a Class II water certification.

EXPERIENCE:

1 year experience in water treatment operations

EDUCATION:

High School Diploma or GED

Associate degree in Chemistry, Biology, or another related field preferred.

NECESSARY SPECIAL REQUIREMENTS:

- Possession of a valid Kansas driver's license
- Possession of a valid Grade I Kansas Water Certificate.
- Ability to attend continuing education classes every two years – 10 hours of water related courses necessary to keep license valid.
- Work in extreme heat and cold environments
- While performing the duties of this job, the employee is occasionally required to use hands to finger; handle, or reach with hands or arms, stoop, kneel, crouch or crawl. The employee is frequently required to stand, walk, sit, climb, or balance.
- The employee must lift and/or move materials up to and over 100 pounds; frequently lift 25 and 55 pounds; and regularly lift 10 pounds.
- Drug testing and physical fitness test
- Must be able to work varying shifts, as assigned.
- Must be available for emergency situations.