



## City of Kansas City, Missouri Job Class Specification

**Job Title:** SENIOR PLANT OPERATOR

**Department:** WATER

**Job Code:** 5426

**Status:** NONEXEMPT

**Grade:** L-7

**Summary**

This is skilled technical work in the operation and maintenance of water/wastewater treatment and pumping facilities including leading other skilled and semiskilled workers in lower job classifications.

Work involves responsibility for the safe and efficient operation and maintenance of major treatment processes and systems including all day to day process control decisions. Work also includes planning, assigning and inspecting the work performed by lower level operations personnel. Work is performed under the supervision of a technical supervisor.

**Duties and  
Responsibilities**

- Responsible for the day to day operation of a medium sized treatment facility (flow of >5.0 MGD), or of multiple package treatment facilities, or of multiple treatment processes and systems in a large treatment facility (>40 MGD).
- Assigns work and participates in sampling, process control tests, checking equipment, checking and operating line valves, operating equipment, evaluating unit process performance and maintaining a clean and safe work environment.
- Evaluates laboratory results and operational data to determine the condition of processes and makes process control decisions, including changes in chemical dosages, water system pressures, filter operations and sludge wasting rates.
- Ensures proper maintenance of equipment and line valves by scheduling timely inspections, preventive maintenance and repair work, and following up on work orders.
- Maintains accurate, complete, up-to-date operational records.
- Troubleshoots problems with equipment and processes.
- Trains Plant Operators and Plant Operator Trainees in plant operations and maintenance and in safety.
- Uses computer for SCADA system operation, as well as routine data entry and remote monitoring of facilities.
- Performs related duties as required.

**Technical Skills**

Thorough knowledge of:  
The operating principles and theories of the treatment facilities to which assigned.  
The proper operation and maintenance of plant equipment, and sampling, testing and measuring equipment used by operations personnel.  
The hazards of the work and the safe work practices required for all equipment, chemicals and facilities to which assigned.  
Proper sample collection and handling procedures.

Considerable knowledge of:  
Pump operation and maintenance (all types).  
NPDES permit requirements for the facilities to which assigned.  
Records maintenance practices for plant operations and maintenance.

Working knowledge of:  
Laboratory analysis procedures and interpretation of results.  
Energy conservation and other cost saving methods.  
Purchasing procedures for chemicals, supplies and equipment.  
Emergency procedures for injuries, power outages, equipment breakdowns, flooding, etc.

Ability to:  
Maintain plant operations within established standards.  
Recognize and remedy plant malfunctions and disorders.  
Maintain detailed operation records.  
Plan work and lead other operations personnel in the proper conduct of their duties.  
Perform math calculations required for process evaluation and control decisions.  
Use computer terminals to monitor & operate equipment and processes & record data.  
Use personal protective equipment to work in and around hazardous chemicals and environment.

**Education and Experience**

High school graduation.

**Certificates/  
Licenses/Special  
Requirements**

- Must possess a valid State –issued driver's license in accordance with the City of KCMO policies.
- Possession of a B-level operator certification in water/wastewater issued by the Missouri Department of Natural Resources.
- Will be required to pass a preemployment drug screen
- Must pass a background check as prescribed by the City.
- Must pass a physical examination as prescribed by the City.

**Supervisory  
Responsibility**

None

**Supervision  
Received**

Work is performed under general supervision.

Note: This job description should not be construed to imply that these requirements are the exclusive standards of the position. Incumbents will follow any other instructions, and perform any other related duties, as may be required. Reasonable accommodation will be provided to qualified individuals with disabilities. The City of Kansas City has the right to revise this job description at any time. The job description is not to be construed as a contract for employment.

**Created****Revised**

4/73, 10/92, 5/95, 10/03, 9/06, 1/08, 12/2021, 8/2022

