

## Laboratory Technician III

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### **DEFINITION**

This is supervisory and skilled work involving the performance of moderately complex technical work in chemical, biological and physical testing and analysis in a sewage treatment, water treatment or power plant laboratory.

Employees of this class supervise and instruct senior technical staff. Work also involves responsibility for performing analytical tests of moderate complexity, collecting samples, preparing specimens and solutions, operating, calibrating and maintaining relatively complex instruments and equipment, surveying technical and scientific literature and/or assisting professional personnel in research and diagnostic studies.

Work is performed under professional direction with limited supervision and is subject to review through reports, standards of performance and overall effectiveness of the service provided.

The work of this class is differentiated from the Laboratory Technician II class by the supervision exercised and received, the administrative duties and the greater impact of the work on the organization.

### **TYPICAL DUTIES\***

Supervises and instructs Laboratory Assistants and Technicians.

Performs more complex, non-routine chemical, biological or physical tests and analysis as required in control operations of water, sewage or power plants.

Prepares, standardizes and maintains a stock of laboratory solutions, indicators and reagents.

Operates, calibrates and maintains relatively advanced types of laboratory instrumentation including, in some cases, air pollution monitoring equipment.

Inventories, maintains and controls laboratory stocks of equipment, chemicals, materials and supplies including replenishment as required.

Assists professional superiors in advanced and special analyses including review of new and advanced equipment and techniques.

Conducts plant tours for the general public when assigned.

Performs related work as required.

**KNOWLEDGE, ABILITIES AND SKILLS**

Considerable knowledge of laboratory techniques and methodology.

Considerable knowledge of the principles and practices of chemical, biological and physical testing and analysis.

Considerable knowledge of the operation, maintenance and calibration of laboratory instrumentation and apparatus.

Some knowledge of data processing applications.

Ability to supervise and instruct senior staff engaged in laboratory activities.

Ability to use, maintain and calibrate laboratory instrumentation and equipment.

Ability to understand and follow written and oral instructions and directions.

Ability to prepare technical reports.

Manual dexterity and skill in laboratory manipulative techniques.

Good eyesight to permit accurate reading of calibrated instruments; normal colour perception to permit accurate observation of tests based on colour and colour changes.

**TRAINING AND EXPERIENCE REQUIREMENTS**

Job Level

Completion of the two (2) year chemical technology program at N.A.I.T. or equivalent institute supplemented by training in instrument technology and some data processing application; and a minimum of five (5) years' directly related experience.

*\* This is a class specification and not an individualized job description. A class specification represents and defines the general character, scope of duties and responsibilities of all positions within a specific job classification. It is not intended to describe nor does it necessarily list the essential job functions for a specific position in a classification. Positions may perform some of the duties listed above but this does not necessarily qualify for placement into this classification.*

Salary Plan	<u>21M</u>	<u>21A</u>	<u>21B</u>	<u>21C</u>
Job Code	0737		0738	
Last Updated:	1981-08			
Previous Updates:				
Originated:	1973-04			