

Laboratory Technician II

DEFINITION

This is 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.

Work 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.

In some positions instruction and guidance of junior technical staff may also be required. Work is normally performed under professional direction and with limited direct supervision except in the review through reports, standards of performance and overall effectiveness of the services provided.

The work of this class is differentiated from the Laboratory Technician I class by the leadhand supervision exercised and the greater complexity of the work assigned.

TYPICAL DUTIES*

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.

Assists in the instruction and training of Laboratory Assistants and Laboratory Technician I's.

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 laboratory testing and analysis related to sewage treatment, water treatment or boiler distillation and makeup water.

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Some knowledge of data processing applications.

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.

Ability to instruct junior staff engaged in laboratory activities.

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 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 two (2) 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	0733		0734	
Last Updated:	1981-08			
Previous Updates:				
Originated:	1973-04			