

## Materials Technical Assistant

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### **DEFINITION**

This is technical work which may be frequently physically demanding with performance of duties for both laboratory and field assignments. Work involves the conducting of standard testing on a variety of materials used in a specific area of civic construction and maintenance program and preparing samples of material for testing to be completed by technical superiors.

Employees of this class are principally involved with field work performing standardized tests on a limited variety of materials to ensure their conformance to specifications but may also be responsible for assisting superiors by gathering and preparing materials or equipment to be used in the testing process in a laboratory setting.

The performance of duties may range from the setting up and maintenance of various types of equipment to the increased complexity involved in the operation of this equipment while performing tests in both field and laboratory.

All employees of this class may be under immediate supervision and give very detailed and specific instructions or perform duties independently with periodic review of their work done by a supervisor.

### **TYPICAL DUTIES\***

Performs standardized tests for any one of a variety of construction type materials such as compaction tests on asphalt; density test on soils, air/slump tests on concrete and sieve analysis of gravel.

Operates a variety of testing equipment such as a diamond drill coring machine, volumemeter, air meter, compaction hammer or nuclear density gauge.

Cleans and maintains testing equipment.

Tabulates testing results and records such data.

Gathers specified material samples and prepares these samples for testing.

Reads prepared tables and graphs.

Utilizes library references to gather information.

Insures the field sample is representative of the tested material.

Communicates relevant test result data to field personnel.

Performs related work as required.

**KNOWLEDGE, ABILITIES AND SKILLS**

- Ability to understand and execute oral and written instructions.
- Ability to establish and maintain effective working relations as necessitated.
- Ability to perform mathematical calculations.
- Ability to exercise initiative and independence in a field environment.
- Knowledge of laboratory equipment and procedures.
- Ability to record field data accurately.

**TRAINING AND EXPERIENCE REQUIREMENTS**

Job Level

Completion of the twelfth (12th) school grade, supplemented by some courses in Civil or Material Technology from a Technical Institute or University. Applicant(s) must possess a valid Alberta driver's license.

*\* 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	0719		0720	
Last Updated:	1981-08			
Previous Updates:				
Originated:	1978-11			