



## Instrument Technician II

---

### **DEFINITION**

This is journeyman level work involving the standardization, calibration, repair and maintenance of instrumentation and test equipment. Work also involves the modification design and manufacture of specialized equipment and the performance of other related duties as required.

### **TYPE OF WORK**

- |                                       |  |
|---------------------------------------|--|
| <input type="checkbox"/> Unskilled    | <input type="checkbox"/> Journeyman                  |
| <input type="checkbox"/> Semi-skilled | <input checked="" type="checkbox"/> Above Journeyman |
| <input type="checkbox"/> Skilled      |  |

### **TYPICAL DUTIES \***

In accordance with departmental, manufacturers and safety standards:

Maintains the accuracy of all instrumentation and test equipment.

Rectifies Primary Standards as required and intercompares primary standards and associated equipment. Certifies the accuracy of secondary standards by calibrating it against the primary standards.

Calibrates, repairs, and maintains electrical, electronic and mechanical devices such as recording megawatt meters, thermal converters, digital meters, oscilloscopes, multimeters, clip on volt/amp meters, recording volt meters, maximeters, recording ammeters, wattbar meters, voltage and polarity meters, high voltage detectors, D.C. highpots, and phase sequence indicators.

Calibrates, repairs, and maintains electrical, electronic and pneumatic-devices such as supervisory equipment, temperature controllers; boiler controls, excitation systems, cooling systems, frequency recorders, scanning devices, flow, temperature and speed transducers, indicating devices, etc.

Maintains a record of all departmental instruments by assigning each a number, classifying each as to type, recording essential data about the instrument, establishing an inspection schedule for portable instruments, maintaining a record of all work performed on an instrument and performing an annual inventory check of all instruments and updating the inventory lists as required.

Tests, repairs, and maintains electronic and mechanical testbound equipment used to calibrate watt-hour meters and various recording and monitoring devices.

Performs acceptance tests on new-instruments-and checking--same-to--ensure proper-performance.



## Instrument Technician II

---

When requested, make recommendations on the purchase of new instruments and equipment including the provision of specifications as required.

Maintains adequate supply of repair parts to ensure minimum repair time.

Designs, modifies, and manufactures digital, electronic, pneumatic, electrical and mechanical equipment for specialized applications as required including the preparation of cost estimates for approval and fabrication of parts as needed.

Informs departmental and outside personnel in the proper use and care of instruments and relative test equipment.

Performs other related duties as required.

### **SUPERVISORY/LEADHAND RESPONSIBILITIES**

May be assigned apprentice or trade helpers as required.

### **ENVIRONMENTAL AND WORKING CONDITIONS**

Normal shop conditions: Works in close proximity to noisy equipment.

### **TRAINING AND EXPERIENCE REQUIREMENTS**

#### **Job Level**

Completion of Grade 12; or equivalent combination of training and experience

Possession of a Journeyman Instrument Mechanic Certificate

Minimum of 2 years related journeyman experience

Possession of a valid Class 5 Alberta Motor Vehicle Operator's License.

#### **On-the-Job Training**

Continual training to keep abreast of advances in the instrumentation field.

\* *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>62M</u>	<u>62D</u>
Job Code	1261	
Grade	030	
Last Updated:	2003-12	
Previous Updates:		
Originated:	1979-05	