



IDENTIFICATION

Department	Position Title	
Infrastructure	Boiler and Gas Inspector	
Position Number	Community	Division/Region
33-6710	Inuvik	Compliance and Licensing

PURPOSE OF THE POSITION

The Boiler and Gas Inspector administers, with other inspectors, the requirements of the Northwest Territories (NWT) Boiler and Pressure Vessels/Gas Protection Acts and Regulations, along with their applicable codes and standards.

SCOPE

Located in Inuvik this position reports to the Manager, Electrical / Mechanical Safety, and is responsible for the enforcement of the *Gas Protection Act*, the *Boiler and Pressure Vessels Act* and Regulations (legislative authorities) as decisions can affect not only public safety but also the economic viability of construction projects being carried out by the private sector.

The position is also responsible to investigate the boiler, pressure vessel, and natural & propane gas accidents or hazards to public safety in the Inuvik Region.

The position has a functional reporting relationship to the Regional Superintendent. For technical expertise, training, code deviations, and references to legislation, the position is guided by the Manager, Electrical/Mechanical Safety.

RESPONSIBILITIES

1. Inspects boiler/pressure vessel plants and gas installations to ensure conformity to minimum acceptable safety standards of the Boiler and Pressure Vessels/Gas protection Acts and Regulations.

- Identifies and registers approved plants;
- Inspects and tests boiler and pressure vessels safety controls;

- Assigns identification numbers and issues certificates of inspection;
 - Monitors qualifications of engineers, gasfitters and plants;
 - Checking for Boiler/Gas Installation Permits;
 - Ensuring boilers, pressure vessels and gas appliances are approved for use by a recognized testing agency;
 - Inspects bulk propane storage vessels for safe operation;
 - Inspects auto propane vehicles for safety standards;
 - Sets time for correction of deficiencies with order follow-ups;
 - Directs and advises owners, contractors and general public on dangerous/unsafe conditions and complaints; and ensures matters are dealt with and resolved in a satisfactory and timely manner.
- 2. Fulfill administration duties and responsibilities:**
- Administers Supervisory Power Engineer Examinations, as required;
 - Writes reports on inspections/investigations;
 - Ensures hazard alerts and information regarding unsafe equipment are provided to the public.
- 3. Reviews designs, plans, welding procedures, quality assurance programs, and investigations, as required:**
- Requests operational tests on appliances;
 - Examines construction drawings and material specifications;
 - Advises owners or contractors of necessary changes;
 - Conducts seminars/courses on boilers, pressure vessels and gas fuelled appliances;
 - Works closely with mechanical engineers and manufacturers of boilers and gas related equipment.
- 4. Administers welding tests:**
- Conducts welding performance qualification tests;
 - Inspects to ensure procedures are followed by the welder, through the test;
 - Inspects to ensure welded coupons are subjected to a bend test in a laboratory setting.
- 5. Investigates accidents, fires and explosions where boilers, pressure vessels and gas fuelled appliances appear to be involved and determines the cause; provides advice on precautions to be taken to prevent similar accidents:**
- Completes physical inspection of the scene;
 - Collects evidence and performs tests as are necessary;
 - Interviews witnesses;
 - Makes written reports: sets forth events, cause and possible remedial action.
- 6. Each inspector completes and submits duty travel requests to Manager for approval:**
- Completes trip reports upon return from travel; and indicates problems encountered, action taken, meetings and cooperation received. This report will be filed for future visits.

- Participates in staff development, trade shows, safety seminars, etc. and other duties as required;
- Develops team concept inspection practices through consensus inspections and problem solving.

WORKING CONDITIONS

Physical Demands

Climbs and crawls in awkward positions and tight areas, weekly, for 4 hours.

Environmental Conditions

The incumbent is exposed to hazards that include harmful chemicals, steam, hot water dangers, caustic chemicals and hot mechanical rooms for approximately 4 hours daily. The work requires a need to wear protective clothing and safety gear. Exposure to extreme winter weather may occur on occasion during winter months.

Sensory Demands

No unusual demands.

Mental Demands

The incumbent will be subject to extensive air travel on a monthly basis.

On a daily basis for up to 8 hours, concentration on tasks is required, including investigations and preparation of reports.

KNOWLEDGE, SKILLS AND ABILITIES

- Knowledge of Boiler/Pressure Vessel and Gas Legislation.
- Mechanically inclined and have thorough training in mechanical blue print reading.
- Knowledge of the welding trade and certification as a welder would definitely be an asset.
- Strong communication skills, verbal and written.

Typically, the above qualifications would be attained by:

- Completion of Grade 12 – supplemented with 1st class propane and natural gas certification, 4th class standardized power engineer certification;
- Possess a NWT Class 5 Driver's Licence.
- 5 years or equivalent previous experience as a boiler and/or gas inspector.

ADDITIONAL REQUIREMENTS

Position Security

- No criminal records check required
- Position of Trust – criminal records check required
- Highly sensitive position – requires verification of identity and a criminal records check

French language (check one if applies)

- French required (must identify required level below)

Level required for this Designated Position is:

ORAL EXPRESSION AND COMPREHENSION

Basic (B) Intermediate (I) Advanced (A)

READING COMPREHENSION:

Basic (B) Intermediate (I) Advanced (A)

WRITING SKILLS:

Basic (B) Intermediate (I) Advanced (A)

- French preferred

Aboriginal language: Choose a language

- Required
- Preferred