

Position: **Benchmark Job #064**

Ministry: Municipal Affairs and Housing

Working Title: **Boiler Inspector**

Branch: Boiler Gas and Railways Safety

Level: Range 24

Location: New Westminster

NOC Code: 2262

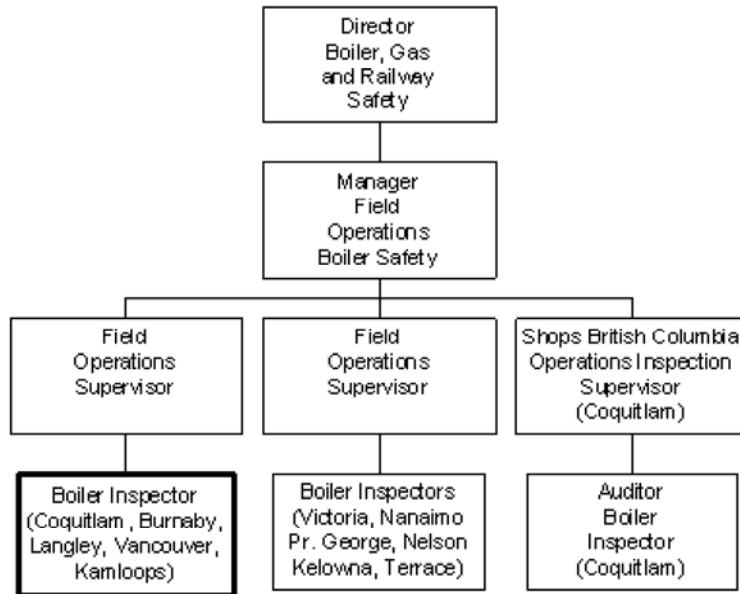
## PRIMARY FUNCTION

To ensure the safety of boilers, pressure vessels, pressure components, pressure piping systems and refrigeration systems through the application of approved codes and standards, inspection and regulatory services and owner/operator educational programs.

## JOB DUTIES AND TASKS

1. Performs inspection and regulatory services
  - a. inspects pressure containment units, pressure components and auxiliary equipment, verifies and signs manufacturers' data reports and signs and issues certificates of inspection for new and existing steam plants, heating plants, pressure vessels, pressure piping systems and refrigeration systems
  - b. investigates incidents and accidents concerning defects and failures of pressure containment units and equipment and prepares investigation reports
  - c. requires owners/operators of pressure containment units to carry out repairs or other corrective action and approves repair procedures
  - d. inspects and determines if field installation and erection of boilers, pressure vessels, pressure piping systems and refrigeration systems comply with registered design drawings, specifications and applicable codes and standards
  - e. provides advice and explanations of guidelines, codes, standards and regulations to promote safety assurance programs with industry and the public
  - f. prepares reports on inspections, defects, repairs, audits and investigations of boilers, pressure vessels, pressure piping systems and refrigeration systems
  - g. reviews equipment innovations and new technology to determine how existing boiler safety standards apply
  - h. approves, orders remedial action or rejects pressure vessel installations
2. Performs other related duties
  - a. conducts and marks Power Engineering examinations
  - b. verifies credentials and conducts testing of Pressure Welders and approves test results
  - c. prepares and presents seminars, bulletins and papers to industrial and public sector groups
  - d. attends meetings, training seminars and programs as required
  - e. provides information and expert witness testimony for legal action taken by the Branch and Coroner's hearings
  - f. reviews and audits Quality Control procedures and programs of owners/operators
  - g. signs for truck operating costs

h. drives to inspection sites



FACTOR	REASON FOR CLASSIFICATION	DEGREE	POINTS
1	<p><b>JOB KNOWLEDGE</b></p> <p>Understand the theory of the boiler and pressure vessel trade to inspect the design, manufacture, construction, installation, operation, alteration and repair of industry boilers and pressure vessels.</p>	H	280
2	<p><b>MENTAL DEMANDS</b></p> <p>Judgement to modify inspection techniques and approaches to conduct boiler, pressure and refrigeration equipment inspections to adapt to the needs and circumstances of each business operation and determine how standards apply to new and old equipment and technology.</p>	G	200
3	<p><b>INTERPERSONAL COMMUNICATION SKILLS</b></p> <p>Persuasion required to use basic negotiation skills to resolve non-compliance problems with operators, contractors and industry.</p>	D	45
4	<p><b>PHYSICAL COORDINATION AND DEXTERITY</b></p> <p>Significant coordination and dexterity required to use precision instruments and hand tools for testing when inspecting boilers and pressure vessels.</p>	D	22.5
5	<p><b>RESPONSIBILITY FOR WORK ASSIGNMENTS</b></p> <p>Guided by trade standards, inspect the design, installation, operation and repair of pressure vessel and refrigeration operations to approve operations.</p>	F	160
6	<p><b>RESPONSIBILITY FOR FINANCIAL RESOURCES</b></p> <p>Limited financial responsibility to sign for truck operating costs through petty cash, credit card or expense claim.</p>	B	10

FACTOR	REASON FOR CLASSIFICATION	DEGREE	POINTS
7	<b>RESPONSIBILITY FOR PHYSICAL ASSETS/INFORMATION</b> Considerable responsibility to inspect the operation, repair and maintenance of boilers, pressure vessels and refrigeration systems operated by industry.	E	33
8	<b>RESPONSIBILITY FOR HUMAN RESOURCES</b> Limited responsibility for human resources to give work instructions to support staff.	A	5
9	<b>RESPONSIBILITY FOR WELL BEING/SAFETY OF OTHERS</b> Considerable care and attention to inspect the operation, repair and maintenance of boilers and pressure vessels in industrial and public settings.	E	40
10	<b>SENSORY EFFORT/MULTIPLE DEMANDS</b> Focused attention to detail to frequently visually and by smell and hearing inspect boilers and pressure vessels and to read blue prints.	C	12
11	<b>PHYSICAL EFFORT</b> Heavy physical effort to frequently climb towers up to 250 feet high to conduct inspections.	E	24
12	<b>SURROUNDINGS</b> Exposure to confined spaces frequently.	D	9
13	<b>HAZARDS</b> Significant exposure to hazards from frequent climbing of towers up to 250 feet high to conduct inspections.	D	9

Total Points: 849.5

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