

# STEAMFITTER / PIPEFITTER

## EMPLOYER DECLARATION OF WORK EXPERIENCE

This form is used to declare work experience for periods of employment and must be completed by a **direct supervisor of the applicant**, who will be contacted by SkilledTradesBC.

**Note:** An Employer Declaration of Work Experience form must be completed for each period of employment.

This form is not to be used for periods of self-employment. For more information, see Instructions for Certification.

To qualify to challenge certification in this trade, individuals must have:

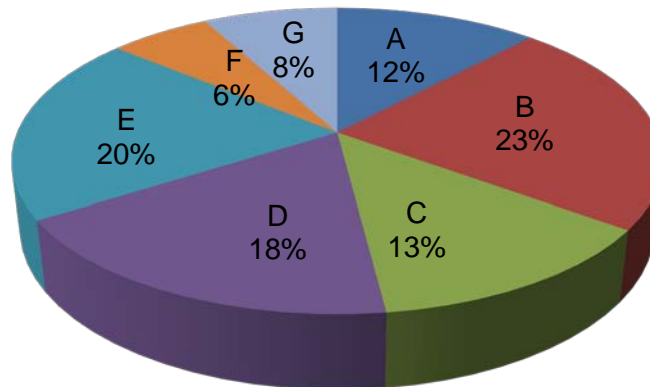
- worked a minimum of **9,450 hours** performing the tasks listed in Section D, and
- experience performing at least **70%** of the job tasks listed in Section D

Holders of a **Certificate of Qualification with Inter-Provincial Red Seal Endorsement in Plumber or Sprinkler Fitter** will be eligible to challenge this certification by documenting **4,950 hours** of directly related work experience.

### Red Seal Exam Weighting

This pie chart represents the distribution of questions on the Red Seal Exam. The self-assessment on the next pages shows the Tasks and Sub-tasks within each Major Work Activity and the number of questions assigned to each Major Work Activity and Task.

The Red Seal Exam for this trade has **130 questions**.



	Major Work Activity / Exam Section	Exam Weightage	Number of Questions in Exam
A	Performs Common Occupational Skills	12%	16
B	Performs Layout, Fabrication and Piping Installation	23%	29
C	Performs Rigging, Hoisting, Lifting and Positioning	13%	17
D	Installs, Tests, Maintains, Troubleshoots and Repairs Low- and High-Pressure Steam and Condensate Systems	18%	24
E	Installs, Tests, Maintains, Troubleshoots and Repairs Heating, Cooling and Process Piping Systems	20%	26
F	Installs, Tests, Maintains, Troubleshoots and Repairs Renewable Energy Systems	6%	7
G	Performs Commissioning, Start-up and Turnover	8%	11

**A. Applicant Name**

Enter the name of the individual for whom this form is being completed.

Legal First Name:	Legal Middle Name(s):	Legal Last Name:
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**B. Employment Information of Applicant**

Enter the business information for the applicant's period of employment declared for this trade.

Name of Organization/Employer/Business:		
Mailing Address:		City:
Province/ State:	Country:	Postal Code/ Zip Code:
Business Phone Number: ( )	Website:	

Enter the dates and number of hours for this period of employment.

Dates of Applicant's Employment (MM/DD/YYYY): From: To:	Total Number Hours of <b>Steamfitter / Pipefitter</b> Experience Accumulated in that Period:
Job Title of Applicant:	

**C. Supervisor Contact Information**

Enter the name and contact information for the person who directly supervised the applicant during this employment period. Ensure the information given is current as the application will be denied if this person cannot be contacted by SkilledTradesBC.

First and Last Name of Applicant's Direct Supervisor:	Supervisor Position or Title:
Supervisor's Phone Number: ( )	Supervisor E-Mail Address:
Language(s) that the employer/supervisor can communicate: (check all that apply)	
<input type="checkbox"/> English <input type="checkbox"/> Other (please specify): _____	

**D. Supervisor Declaration of Job Task Performance of Applicant**

By checking "Yes" or "No" in the Declaration Response column, indicate whether you, as the direct supervisor of the applicant, have personally witnessed the applicant performing the job tasks listed.

Enter the supervisor and applicant names (repeat on every page of this form)

Supervisor First and Last Name:	Applicant First and Last Name:
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JOB TASKS	Number of questions on the Red Seal exam	SUPERVISOR DECLARATION RESPONSE
<b>A – PERFORMS COMMON OCCUPATIONAL SKILLS (12%)</b>		
<b>Task-1 Performs safety-related functions</b> - Maintains safe work environment. - Selects, inspects and uses personal protective equipment (PPE) and safety equipment. - Follows lock-out procedures.	5	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Task-2 Uses and maintains tools and equipment</b> - Uses common tools and equipment. - Uses access equipment. - Uses welding equipment. - Uses soldering and brazing equipment. - Uses oxy-fuel equipment.	5	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Task-3 Organizes job</b> - Plans work. - Generates drawings - Interprets drawings and specifications. - Develops piping templates. - Performs preliminary quality control functions.	6	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>B – PERFORMS LAYOUT, FABRICATION AND PIPING INSTALLATION (23%)</b>		
<b>Task-4 Performs fabrication</b> - Fabricates piping system components. - Fabricates brackets, supports, hangers, guides and anchors.	9	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Task-5 Lays out, identifies and installs piping, tubing, fittings and related components</b> - Lays out, identifies and installs copper piping, tubing, fittings and related components. - Lays out, identifies and installs plastic piping, tubing, fittings and related components. - Lays out, identifies and installs carbon steel piping, tubing, fittings and related components.	11	<input type="checkbox"/> Yes <input type="checkbox"/> No

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Supervisor First and Last Name:	Applicant First and Last Name:
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JOB TASKS	Number of questions on the Red Seal exam	SUPERVISOR DECLARATION RESPONSE
<ul style="list-style-type: none"> <li>- Lays out, identifies and installs stainless steel piping, tubing, fittings and related components.</li> <li>- Lays out, identifies and installs fibreglass piping, fittings and related components.</li> <li>- Lays out, identifies and installs specialty piping, fittings and related components.</li> </ul>		
<p><b>Task-6 Lays out, identifies and installs piping, tubing, fittings and related components</b></p> <ul style="list-style-type: none"> <li>- Installs valves.</li> <li>- Maintains, troubleshoots, repairs and tests valves.</li> </ul>	6	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p><b>Task-7 Installs, tests, maintains, troubleshoots and repairs heat tracing systems</b></p> <ul style="list-style-type: none"> <li>- Installs steam tracing systems.</li> <li>- Maintains, troubleshoots, repairs and tests steam tracing systems.</li> <li>- Installs liquid-filled tracing systems.</li> <li>- Maintains, troubleshoots, repairs and tests liquid-filled tracing systems.</li> </ul>	3	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>C – PERFORMS RIGGING, HOISTING, LIFTING AND POSITIONING (13%)</b>		
<p><b>Task-8 Performs common rigging, hoisting, lifting and positioning</b></p> <ul style="list-style-type: none"> <li>- Determines load.</li> <li>- Prepares lift plan(s).</li> <li>- Selects rigging, hoisting, lifting and positioning equipment.</li> <li>- Inspects rigging, hoisting, lifting and positioning equipment.</li> <li>- Secures lift area.</li> <li>- Sets up rigging, hoisting, lifting and positioning equipment.</li> <li>- Performs lift and positioning.</li> <li>- Maintains and stores rigging, hoisting, lifting and positioning equipment.</li> </ul>	11	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p><b>Task-9 Performs complex and critical rigging, hoisting, lifting and positioning</b></p> <ul style="list-style-type: none"> <li>- Prepares lift plan for complex and critical rigging, hoisting, lifting and positioning.</li> <li>- Performs calculations for complex and critical rigging, hoisting, lifting and positioning.</li> <li>- Selects rigging, hoisting, lifting and positioning equipment for complex and critical lifts.</li> </ul>	6	<input type="checkbox"/> Yes <input type="checkbox"/> No

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JOB TASKS	Number of questions on the Red Seal exam	SUPERVISOR DECLARATION RESPONSE
<ul style="list-style-type: none"> <li>- Sets up rigging, hoisting, lifting and positioning equipment for complex and critical lifts.</li> <li>- Performs complex and critical lifts and positioning.</li> </ul>		
<b>D – INSTALLS, TESTS, MAINTAINS, TROUBLESHOOTS AND REPAIRS LOW- AND HIGH-PRESSURE STEAM AND CONDENSATE SYSTEMS (18%)</b>		
<p><b>Task-10 Installs, tests, maintains, troubleshoots and repairs low pressure steam and condensate systems</b></p> <ul style="list-style-type: none"> <li>- Installs equipment for low pressure steam and condensate systems.</li> <li>- Installs piping for low pressure steam and condensate systems.</li> <li>- Tests low pressure steam and condensate systems.</li> <li>- Maintains, troubleshoots and repairs low pressure steam and condensate systems.</li> </ul>	11	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p><b>Task-11 Installs, tests, maintains, troubleshoots and repairs high pressure steam and condensate systems</b></p> <ul style="list-style-type: none"> <li>- Installs equipment for high pressure steam and condensate systems.</li> <li>- Installs piping for high pressure steam and condensate systems.</li> <li>- Tests high pressure steam and condensate systems.</li> <li>- Maintains, troubleshoots and repairs high pressure steam and condensate systems.</li> </ul>	13	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>E – INSTALLS, TESTS, MAINTAINS, TROUBLESHOOTS AND REPAIRS HEATING, COOLING AND PROCESS PIPING SYSTEMS (20%)</b>		
<p><b>Task-12 Installs, tests, maintains, troubleshoots and repairs hydronic systems</b></p> <ul style="list-style-type: none"> <li>- Installs equipment for hydronic systems.</li> <li>- Installs piping for hydronic systems.</li> <li>- Tests hydronic systems.</li> <li>- Maintains, troubleshoots and repairs hydronic systems.</li> </ul>	6	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p><b>Task-13 Installs, tests, maintains, troubleshoots and repairs process piping systems</b></p> <ul style="list-style-type: none"> <li>- Installs equipment for process piping systems.</li> <li>- Installs piping for process piping systems.</li> <li>- Tests process piping systems.</li> <li>- Maintains, troubleshoots and repairs process piping systems.</li> </ul>	6	<input type="checkbox"/> Yes <input type="checkbox"/> No

*Enter the supervisor and applicant names (repeat on every page of this form)*

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JOB TASKS	Number of questions on the Red Seal exam	SUPERVISOR DECLARATION RESPONSE
<p><b>Task-14 Installs, tests, maintains, troubleshoots and repairs industrial water and waste treatment systems</b></p> <ul style="list-style-type: none"> <li>- Installs equipment for industrial water and waste treatment systems.</li> <li>- Installs piping for industrial water and waste treatment systems.</li> <li>- Tests industrial water and waste treatment systems.</li> <li>- Maintains, troubleshoots and repairs industrial water and waste treatment systems.</li> </ul>	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p><b>Task-15 Installs, tests, maintains, troubleshoots and repairs hydraulic systems</b></p> <ul style="list-style-type: none"> <li>- Installs equipment for hydraulic systems.</li> <li>- Installs piping, tubing and hoses for hydraulic systems.</li> <li>- Tests hydraulic systems.</li> <li>- Maintains, troubleshoots and repairs hydraulic systems.</li> </ul>	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p><b>Task-16 Installs, tests, maintains, troubleshoots and repairs heating, ventilation, air conditioning and refrigeration (HVACR) systems</b></p> <ul style="list-style-type: none"> <li>- Installs equipment for HVACR systems.</li> <li>- Installs hydronic piping and refrigeration tubing for HVACR systems.</li> <li>- Tests associated components of HVACR systems.</li> <li>- Maintains, troubleshoots and repairs associated components of HVACR systems.</li> </ul>	3	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p><b>Task-17 Installs, tests, maintains, troubleshoots and repairs fuel systems</b></p> <ul style="list-style-type: none"> <li>- Installs equipment for fuel systems.</li> <li>- Installs piping and tubing for fuel systems.</li> <li>- Tests fuel systems.</li> <li>- Maintains, troubleshoots and repairs fuel systems.</li> </ul>	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p><b>Task-18 Installs, tests, maintains, troubleshoots and repairs medical gas systems</b></p> <ul style="list-style-type: none"> <li>- Installs equipment for medical gas systems.</li> <li>- Installs piping and tubing for medical gas systems.</li> <li>- Tests medical gas systems.</li> <li>- Maintains, troubleshoots and repairs medical gas systems.</li> </ul>	2	<input type="checkbox"/> Yes <input type="checkbox"/> No

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JOB TASKS	Number of questions on the Red Seal exam	SUPERVISOR DECLARATION RESPONSE
<p><b>Task-19 Installs, tests, maintains, troubleshoots and repairs compressed air and pneumatic systems</b></p> <ul style="list-style-type: none"> <li>- Installs equipment for compressed air and pneumatic systems.</li> <li>- Installs piping and tubing for compressed air and pneumatic systems.</li> <li>- Tests compressed air and pneumatic systems.</li> <li>- Maintains, troubleshoots and repairs compressed air and pneumatic systems.</li> </ul>	3	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>F – INSTALLS, TESTS, MAINTAINS, TROUBLESHOOTS AND REPAIRS RENEWABLE ENERGY SYSTEMS (6%)</b>		
<p><b>Task-20 Installs, tests, maintains, troubleshoots and repairs geo-exchange and geothermal systems</b></p> <ul style="list-style-type: none"> <li>- Installs equipment for geo-exchange and geothermal systems.</li> <li>- Installs piping for geo-exchange and geo-thermal systems.</li> <li>- Tests geo-exchange and geothermal systems.</li> <li>- Maintains, troubleshoots and repairs geo-exchange and geothermal systems.</li> </ul>	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p><b>Task-21 Installs, tests, maintains, troubleshoots and repairs solar heating systems</b></p> <ul style="list-style-type: none"> <li>- Installs equipment for solar heating systems.</li> <li>- Installs piping for solar heating systems.</li> <li>- Tests solar heating systems.</li> <li>- Maintains, troubleshoots and repairs solar heating systems.</li> </ul>	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p><b>Task-22 Installs, tests, maintains, troubleshoots and repairs heat recovery systems</b></p> <ul style="list-style-type: none"> <li>- Installs equipment for heat recovery systems.</li> <li>- Installs piping for heat recovery systems.</li> <li>- Tests heat recovery systems.</li> <li>- Maintains, troubleshoots and repairs heat recovery systems.</li> </ul>	4	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>G – PERFORMS COMMISSIONING, START-UP AND TURNOVER (8%)</b>		
<p><b>Task-23 Prepares system for commissioning, start-up and turnover</b></p> <ul style="list-style-type: none"> <li>- Flushes system.</li> <li>- Chemically treats system.</li> <li>- Pre-checks system for commissioning.</li> </ul>	6	<input type="checkbox"/> Yes <input type="checkbox"/> No

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JOB TASKS	Number of questions on the Red Seal exam	SUPERVISOR DECLARATION RESPONSE
- Selects and connects commissioning equipment.		
<b>Task-24 Commissions systems</b> - Secures commissioning area. - Pressurizes system. - Inspects system. - Corrects faulty conditions. - Participates in start-up and turnover procedures.	5	<input type="checkbox"/> Yes <input type="checkbox"/> No

**E. Supervisor Signature**

I certify that the information I, as the current or former direct supervisor of the applicant, have provided is accurate. (Note: Collection and protection of personal information on this form is in accordance with the provisions of the Freedom of Information and Protection of Privacy Act.)

Supervisor name (Please Print):	Supervisor Signature:	Date Signed: (MM/DD/YYYY)
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*Enter the supervisor and applicant names (repeat on every page of this form)*

Supervisor First and Last Name:	Applicant First and Last Name:
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