

## Steamfitter/Pipefitter

# Interprovincial Journeyman Examination Information

<b>Apprentice Requirements:</b>	4 years and 7200 hours
<b>Tradesperson Requirements:</b>	6 years and 10800 hours
<b>Practical Examination:</b>	No

The interprovincial (IP) journeyman examination for this trade is developed by a national committee of worker and employer representatives. The content for IP Examinations is drawn from the Red Seal Occupational Standard (RSOS) for that trade and is based on industry's standards and expectations. You can download and print a free copy of the RSOS from the Red Seal website by visiting [www.red-seal.ca](http://www.red-seal.ca).

To write the interprovincial journeyman examination, you must either successfully complete an apprenticeship training program or meet tradesperson eligibility requirements. The pass mark is 70%.

### Red Seal Examination preparation resources:

To assist in the understanding of the development of all Interprovincial Red Seal examinations, Employment and Social Development Canada (ESDC) has developed the following information.

- A short explanation of the role of an occupational standard in the development of a Red Seal examination can be accessed on the Red Seal website at the following link: <http://www.red-seal.ca/resources/wh.1t.3sn.4.1-eng.html>
- The Getting Ready for the Examination document can be accessed through the Red Seal website at the following link: <http://www.red-seal.ca/docms/getready-eng.pdf>
- Red Seal examination sample questions can be accessed on the Red Seal website at the following link: [http://www.red-seal.ca/resources/s.1mpl.2\\_q.5.2st.3.4ns-eng.html](http://www.red-seal.ca/resources/s.1mpl.2_q.5.2st.3.4ns-eng.html)
- A trade specific skills assessment tool is available on the Red Seal website at the following link: [https://www.red-seal.ca/eng/trades/steamfitpipefit/2015rs.4s\\_4v.2rv.3.2w.shtml](https://www.red-seal.ca/eng/trades/steamfitpipefit/2015rs.4s_4v.2rv.3.2w.shtml)
- Use of cell phones, electronic imaging/recording or communication equipment is **not** permitted. You will be required to leave immediately if any of these items are found on your person.

Please note that examinations and study information change frequently. The most recent information is available on our website at [www.saskapprenticeship.ca](http://www.saskapprenticeship.ca)

## Steamfitter/Pipefitter - Red Seal Examination Breakdown

An Interprovincial Red Seal examination is based on the National Occupational Analysis (NOA) for the trade. The RSOS describes the skills and knowledge required to perform the duties of the trade. Each standard is divided into Blocks (NOA) or Major Work Activities (MWA) (RSOS), which are divided into Tasks, which are divided into Sub-tasks.

The Red Seal examination has a certain number of questions assigned to these sections. The number of questions are provided below. For more information, see the full Red Seal Occupational Standard for this [trade](#).

**Total number of questions on the Interprovincial Red Seal examination - 130 questions\***

Subject	Percent	Number of Questions
<b>MWA A: Performs Common Occupational Skills</b>	12%	
<b>Task A-1:</b> Performs safety related functions		5
<b>Task A-2:</b> Uses and maintains tools and equipment		5
<b>Task A-3:</b> Organizes job		6
<b>MWA B: Performs Layout, Fabrication and Piping Installation</b>	22%	
<b>Task B-4:</b> Performs fabrication		9
<b>Task B-5:</b> Lays out, identifies and installs piping, tubing, fittings and related components		11
<b>Task B-6:</b> Installs, maintains, troubleshoots, repairs and tests valves		6
<b>Task B-7:</b> Installs, tests, maintains, troubleshoots and repairs heat tracing systems		3
<b>MWA C: Performs, Rigging, Hoisting, Lifting and Positioning</b>	13%	
<b>Task C-8:</b> Performs common rigging, hoisting, lifting and positioning		11
<b>Task C-9:</b> Performs complex and critical rigging, hoisting, lifting and positioning		6
<b>MWA D: Installs, Tests, Maintains, Troubleshoots and Repairs Low and High Pressure Steam and Condensate Systems</b>	19%	
<b>Task D-10:</b> Installs, tests, maintains, troubleshoots and repairs low pressure steam and condensate systems		11
<b>Task D-11:</b> Installs, tests, maintains, troubleshoots and repairs high pressure steam and condensate systems		13

<b>MWA E: Installs, Tests, Maintains, Troubleshoots and Repairs Heating, Cooling and Process Piping Systems</b>	20%	
<b>Task E-12:</b> Installs, tests, maintains, troubleshoots and repairs hydronic systems		6
<b>Task E-13:</b> Installs, tests, maintains, troubleshoots and repairs process piping systems		6
<b>Task E-14:</b> Installs, tests, maintains, troubleshoots and repairs water and waste treatment systems		2
<b>Task E-15:</b> Installs, tests, maintains, troubleshoots and repairs hydraulic systems		2
<b>Task E-16:</b> Installs, tests, maintains, troubleshoots and repairs heating, ventilation, air conditioning and refrigeration (HVACR) systems		3
<b>Task E-17:</b> Installs, tests, maintains, troubleshoots and repairs fuel systems		2
<b>Task E-18:</b> Installs, tests, maintains, troubleshoots and repairs medical gas systems		2
<b>Task E-19:</b> Installs, tests, maintains, troubleshoots and repairs compressed air and pneumatic systems		3
<b>Task E-20:</b> Installs and tests fire protection systems (NOT COMMON CORE)		0
<b>MWA F: Installs, Tests, Maintains, Troubleshoots and Repairs Renewable Energy Systems</b>	5%	
<b>Task F-21:</b> Installs, tests, maintains, troubleshoots and repairs geo-exchange and geothermal systems		2
<b>Task F-22:</b> Installs, tests, maintains, troubleshoots and repairs solar heating systems		1
<b>Task F-23:</b> Installs, tests, maintains, troubleshoots and repairs heat recovery systems		4
<b>MWA G: Performs Commissioning, Start-Up and Turnover</b>	9%	
<b>Task G-24:</b> Prepares system for commissioning, start-up and turnover		6
<b>Task G-25:</b> Commissions systems		5
<b>Total</b>	100%	130

*\*The number of questions on an interprovincial examination, assigned to assess each major work activity of the RSOS, as derived from the collective input from workers within the trade across Canada.*

## **Suggested trade resources when preparing for the examination.**

To assist you, a list of reference textbooks is provided below. Note that ISBN numbers are subject to change. Please consult with your supplier to access their most current version of the textbook you are acquiring. It is not necessary to use these specific textbooks; you may find others which will be equally beneficial. You are encouraged to seek additional reference materials in all test areas.

- Fundamentals of Gas Utilization (3rd Edition) Dutton ISBN 9780919852358
- Low Pressure Boilers Steingress ISBN 9780826943651
- IPT Pipe Trades Handbook IPT Publishing and Training Ltd ISBN 9780920855188
- CSA / B149.1-20 Natural Gas and Propane Installation Code 20240691
- CSA / B149.2-20 Propane Storage and Handling Code 20240714
- SASKPOWER / The Saskatchewan Codes of Practice Gas Installation Supplement CSA B149.1–20 20253059
- SASKPOWER / The Saskatchewan Codes of Practice Gas Installation Supplement CSA B149.2–20 20253035
- Advanced Steamfitter Manual Code 20098766
- ELEC470/484 Basic Electricity PLMB STPF APP LEVEL 4 Code 20039608
- Math 470 PLMB STPF APP LEVEL 4 Code 20013189

## **Saskatchewan Polytechnic Modules Supplied by Program:**

- Steamfitter/Pipefitter Apprentice Level 1 Harmonized
- Steamfitter/Pipefitter Apprentice Level 2 Harmonized
- Steamfitter/Pipefitter Apprentice Level 3 Harmonized
- Steamfitter/Pipefitter Apprentice Level 4 Harmonized

Individual Learning Modules (ILMs) for the Steamfitter/Pipefitter trade may be ordered through the Saskatchewan Polytechnic Bookstore Call Centre: 1-866-569-8398 or through [www.tradesecrets.org](http://www.tradesecrets.org) under Steamfitter/Pipefitter.

\*Unless otherwise noted, books listed here are available through the Saskatchewan Polytechnic Bookstore Call Centre: 1-866-569-8398

NOTE: Textbooks **are not** usually available from libraries. When textbooks are being purchased, candidates should allow several weeks for delivery and several weeks for studying.

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This information is subject to change without notice.

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