

Heavy Duty Equipment Technician

Interprovincial Journeyman Examination Information

Apprentice Requirements:	4 years and 7200 hours
Tradesperson Requirements:	6 years and 10800 hours
Practical Examination:	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 National Occupational Analysis (NOA) for that trade and is based on industry's standards and expectations. You can download and print a free copy of the NOA from the Red Seal website by visiting 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 video explaining 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>.
- A trade specific skills assessment tool is available on the Red Seal website at the following link: <https://www.red-seal.ca/docms/heavy-duty-equip-tech/self-assessment.pdf>.

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 <https://saskapprenticeship.ca>.

Heavy Duty Equipment Technician - Red Seal Examination Breakdown

An Interprovincial Red Seal examination is based on the National Occupational Analysis (NOA) for the trade. The NOA 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 - 135 questions*

Subject	Percent	Number of Questions
Block A: Common Occupational Skills	8%	
Task A-1: Uses and maintains tools and equipment		3
Task A-2: Performs general maintenance and inspections		4
Task A-3: Organizes work		2
Task A-4: Performs routine trade activities		2
Block B: Engine and Engine Support Systems	16%	
Task B-5: Diagnose engine systems		12
Task B-6: Repair engine systems		9
Block C: Hydraulic, Hydrostatic and Pneumatic Systems	19%	
Task C-7: Diagnoses hydraulic, hydrostatic and pneumatic systems		16
Task C-8: Repairs hydraulic, hydrostatic and pneumatic systems		10
Block D: Drivetrain Systems	14%	
Task D-9: Diagnoses drivetrain systems		11
Task D-10: Repairs drivetrain systems		7
Block E: Steering, Suspension, Brake Systems, Wheel Assemblies and Undercarriage	14%	
Task E-11: Diagnoses steering, suspension, brake systems, wheel assemblies and undercarriage		11
Task E-12: Diagnoses steering, suspension, brake systems, wheel assemblies and undercarriage		9
Block F: Electrical and Vehicle Management Systems	18%	
Task F-13: Diagnoses electrical systems		8

Task F-14: Repairs electrical systems		4
Task F-15: Diagnoses electronic vehicle management systems		8
Task F-16: Repairs electronic vehicle management systems		4
Block G: Environmental Control Systems	6%	
Task G-17: Diagnoses environmental control systems		5
Task G-18: Diagnoses environmental control systems		3
Block H: Structural Components, Accessories and Attachments	5%	
Task H-19: Diagnoses structural components, accessories and attachments		3
Task H-20: Repairs structural components, accessories and attachments		4
Total	100%	135

**The number of questions on an interprovincial examination, assigned to assess each block of the NOA, 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 text 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.

- Alternative Fuels Version 24.0 A190403C by NAIT/SAIT SKU 20073695
- Automotive Technology A Systems Approach by Restoule ISBN 9780176796174
- Canada's Ozone Layer Protection Awareness by Environment Canada SKU 20274702
- Diesel Fuel & Storage Tanks (Machine & Bulk Storage VER 24.0 NAIT/SAIT SKU 20021115
- Fundamentals of Medium/Heavy Duty Commercial by Duffy ISBN 9781284041163
- Fundamentals of Medium/Heavy Duty Commercial Vehicle Systems by Duffy ISBN 9781284041163
- Fundamentals of Medium/Heavy Duty Diesel Engines by Wright ISBN 9781284067057
- Fundamentals of Mobile Heavy Equipment by Duffy ISBN 9781284112917
- Gasoline Fuel System Fundamentals VER 24.0 A190403B by NAIT/SAIT SKU 20073671
- Ignition System Fundamentals A190403A VER 24.0 by NAIT/SAIT SKU 20073657 ISBN 9781133716259
- Modern Diesel Technology Heating Ventilation Air Conditioning by Dixon
- Rigging Handbook by Klinke ISBN 9781888724189
- Simulator Activities Workbook Revision 8.2 CR008102TA Fluid Power Training Institute SKU 20302306

Individual Learning Modules (ILMs) for the Heavy Duty Equipment Technician trade may be ordered through the Saskatchewan Polytechnic Bookstore Call Centre:1-866-569-8398 or through <https://ilm.nait.ca/home> under Heavy Equipment Technician - Heavy Duty Equipment Mechanic (Off Road).

Modules for the Heavy Duty Equipment Technician trade developed by the Industry Training Authority of British Columbia (*New name: SkilledTradesBC*) are also available at: https://www.crownpub.bc.ca/Product/Listing/13503_BC-Trades?WT.ac=hpsl_BCtrades under Heavy Duty Mechanic.

Those studying for their Interprovincial examination may wish to refer to other Level booklists for additional study materials.

*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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