

# Agricultural Equipment Technician

## Interprovincial Journeyperson 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) journeyperson 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](http://www.red-seal.ca).

To write the interprovincial journeyperson 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/conf/assets/custom/docms/agriequiptech/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 [www.saskapprenticeship.ca](http://www.saskapprenticeship.ca).

# Agricultural 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 is provided below. For more information, see the full National Occupational Analysis for this [trade](#).

## **Total number of questions on the Interprovincial Red Seal examination - 125 questions\***

<b>Subject</b>	<b>Percent</b>	<b>Number of Questions</b>
<b>BLOCK A: Common Occupational Skills</b>	5%	
<b>Task A-1:</b> Performs safety related functions		1
<b>Task A-2:</b> Performs routine work practices		2
<b>Task A-3:</b> Organizes work		1
<b>Task A-4:</b> Uses and maintains tools and equipment		2
<b>Task A-5:</b> Uses communication and mentoring techniques		0
<b>BLOCK B: Diagnoses and Repairs Engines and Engine Support Systems</b>	15%	
<b>Task B-6:</b> Diagnoses engine and engine support systems		11
<b>Task B-7:</b> Repairs engine and engine support systems		7
<b>BLOCK C: Diagnoses and Repairs Drive Trains</b>	13%	
<b>Task C-8:</b> Diagnoses drive train		9
<b>Task C-9:</b> Repairs drive train		7
<b>BLOCK D: Diagnoses and Repairs Hydraulic, Hydrostatic and Pneumatic Systems</b>	18%	
<b>Task D-10:</b> Diagnoses hydraulic, hydrostatic and pneumatic systems		13
<b>Task D-11:</b> Repairs hydraulic, hydrostatic and pneumatic systems		9
<b>BLOCK E: Diagnoses Electrical and Electronic Systems</b>	21%	
<b>Task E-12:</b> Diagnoses electrical/electronic power and control monitoring systems		15
<b>Task E-13:</b> Repairs electrical/electronic power and control monitoring systems		9

<b>BLOCK F: Diagnoses and Repairs Steering, Brakes and Suspension</b>	8%	
<b>Task F-14:</b> Diagnoses steering and brake systems		3
<b>Task F-15:</b> Repairs steering and brake systems		4
<b>Task F-16:</b> Diagnoses track, wheel and suspension components		3
<b>Task F-17:</b> Repairs track, wheel and suspension components		3
<b>BLOCK G: Diagnoses Structural Components and Operator Stations</b>	7%	
<b>Task G-18:</b> Diagnoses structural components		1
<b>Task G-19:</b> Repairs structural components		2
<b>Task G-20:</b> Diagnoses climate control systems		3
<b>Task G-21:</b> Repairs climate control systems		2
<b>BLOCK H: Diagnoses and Repairs Agricultural Equipment</b>	13%	
<b>Task H-22:</b> Prepares agricultural equipment		2
<b>Task H-23:</b> Diagnoses precision farming equipment		2
<b>Task H-24:</b> Repairs precision farming equipment		1
<b>Task H-25:</b> Diagnoses land preparation, tillage and seeding/planting equipment		2
<b>Task H-26:</b> Repairs land preparation, tillage and seeding/planting equipment		2
<b>Task H-27:</b> Diagnoses harvesting, hay and forage equipment		3
<b>Task H-28:</b> Repairs harvesting, hay and forage equipment		2
<b>Task H-29:</b> Diagnoses application and irrigation equipment		2
<b>Task H-30:</b> Repairs application and irrigation equipment		2
<b>Total</b>	100%	125

*\*The number of questions on an interprovincial examination, assigned to assess each major work activity 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 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.

### Loaned by Program (Student Return)

- Diesel Technology by Norman ISBN 1590707702
- Deere/FOS Engines FOS3010NC
- Deere/FOS Air Conditioning FOS5710NC
- Deere/FOS Electrical/Electronic Systems
- Deere/FOS Hydraulics 1008NC
- Deere/FOS Power Trains FOS4008NC
- Deere/FMO Hay and Forage Harvesting FMO14105NC
- Deere/FMO Combine Harvesting FMO15105NC
- Deere/Precision Farming ISBN 9780866914352
- Hydraulic Systems for Mobile Equipment Goodheart-Willcox ISBN 9781631264146

### Supplied by Program (Students keep)

- AGMC 407/408, MACH 486/487 EQPT 486/487 Machinery Diagnostics
- Agricultural Equipment Technician – Basic Spraying 320301b
- Agricultural Equipment Technician – Chemical Safety 320301a
- Agricultural Equipment Technician – Climbing, Lifting, Rigging and Hoisting 650101b
- Agricultural Equipment Technician – Seeding Equipment 320305a
- Agricultural Equipment Technician – Suspension Systems for Sprayers 320301d
- Agricultural Equipment Technician – Tillage Implements 320105e
- Agricultural Equipment Technician – Tractor Performance 320105a
- AIR 100/101, 102/103, 183 Air Conditioning Student Guide
- Canada's Ozone Protection Awareness
- ELEC 122/123, 128/129 Basic Electrical Work Book
- ELEC 122/123, 128/129 Course Pack
- ELEC 214/215, 274/275 Electrical Systems Course Pack
- ELEC 298, 214/215, 274/275 Starters and Alternators Student Guide
- ENGN 117/118, 122/123 Engines Student Guide
- ENGN 202/203, 274/275 Engines Student Guide
- ENGN 304/305, 388/389 Engines Student Guide
- ENGN 400/401, 486/487 Engines Student Guide
- EQPT 197, 270/271, AGMC 202/203 Hay and Forage Student Guide
- EQPT 198, 201/202, 272/273 Sprayer and Applicators Student Guide

- HYDR 103/104, 105/106 Hydraulics Student Guide
- HYDR 300/301, 388/389 Hydraulics Student Guide
- HYDR 402/403, 486/487 Hydraulics Student Guide
- Oxy Fuel Welding Manual Campbell ISBN 9781444677225
- SMAW Welding Manual
- TRNM 105/106, 107/108 Powertrains Student Guide
- TRNM 270/271 Powertrains Student Guide
- TRNM 300/301, 388/389 Powertrains Student Guide

Borrowed from AET Stores when required:

- Agriculture Power and Machinery
- Deere/FOS Bearings and Seals FOS5406NC
- Deere/FOS Belts and Chains FOS5307NC
- Deere/FOS Fasteners FOS 6006NC
- Deere/FOS Shop Tools FOS5107NC

Individual Learning Modules (ILM's) for the Agricultural 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 Agricultural Equipment Technician.

**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.

FORM # 2012 112223

This information is subject to change without notice.

1-877-363-0536  
[apprenticeship@gov.sk.ca](mailto:apprenticeship@gov.sk.ca)  
[saskapprenticeship.ca](http://saskapprenticeship.ca)