

# REFRIGERATION AND AIR CONDITIONING MECHANIC

## Level One Examination Information

The **Refrigeration and Air Conditioning Mechanic** trade level examinations are developed by the Apprenticeship and Trade Certification Commission in co-operation with a committee of worker and employer representatives selected from industry. The pass mark is 70%. Apprentices may challenge this exam only once. Examination content is based on the expectations and standards for Saskatchewan apprentices as follows:

Subject	Percent	Number of questions
Refrigeration Controls	7%	9
Electricity and Electrical Applications	10%	12
Graphics	7%	9
Refrigeration Components and Accessories	7%	9
Fundamentals of Refrigeration	9%	11
Basic Refrigeration Cycle	8%	10
Basic System Applications	12%	15
Hand Skills and Service Techniques	12%	15
Hand Tools	10%	13
Welding	10%	12
<b>Total</b>	<b>100%</b>	<b>115</b>

**Study all areas of the trade in 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.

- Control in the Refrigeration and Air Conditioning Industry (CFC Certification) SKU 20011642
- Electricity and Controls for HVAC-R by Herman ISBN 1435484274
- Heating & Cooling Essentials (2003 Revision) by Killinger ISBN 9781631260599
- Industrial Mathematics MATH 199 SKU 20030506
- Oxyfuel Welding and Oxyfuel Cutting WELD/OFW AND OFC SKU 20170196

Individual Learning Modules (ILMs) for the Refrigeration and Air Conditioning Mechanic trade may be ordered through the Saskatchewan Polytechnic Bookstore Call Center: 1-866-569-8398 or through <https://ilm.nait.ca/home> under Refrigeration and Air Conditioning Mechanic.

\*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 texts are being purchased, candidates should allow several weeks for delivery and several weeks for studying.

**VISIT OUR WEB SITE!**

[www.saskapprenticeship.ca](http://www.saskapprenticeship.ca)

Absolutely no cell phones, communication devices or PDAs are allowed in the examination facility. You will be required to leave immediately if any of these items are found on your person.

**Important information regarding calculators** – please note that due to increasing security issues, candidates are not permitted to bring their own calculators to the exam facility. Instead, we will be supplying each candidate with a calculator. Please refer to the “Forms” section of our web page for further information.

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

FORM # 2019 071122

This information is subject to change without notice.

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**[saskapprenticeship.ca](http://saskapprenticeship.ca)**



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