



# Refrigeration And Air Conditioning Mechanic

## About this job

Professionals in this field belong to an industry that helps keep modern day-to-day life comfortable and convenient. Refrigeration and air conditioning mechanics work in industrial, commercial and residential settings, and may work both independently and alongside other trade professionals.



REFRIGERATION AND AIR CONDITIONING MECHANIC FALLS UNDER NATIONAL OCCUPATION CLASSIFICATION (NOC) CODE #7313/72402



- **Four-year program**
- **Red Seal Certificate**
- **Requires out of the territory technical training**
- **High Demand Job**
- **Mechanical Industry**
- **Construction**

## \$103,300

Estimated Average Journeyman Salary

APPRENTICESHIP, TRADES, AND OCCUPATIONAL CERTIFICATION

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## What can I expect to do for work if I become a Refrigeration and Air Conditioning Mechanic?

Refrigeration and air conditioning mechanics install, maintain, repair and overhaul industrial, commercial and residential refrigeration and air conditioning systems and their components.

At installation sites, refrigeration and air conditioning mechanics:

- work from drawings or verbal instructions to mount or place system components,
- assemble and install refrigeration or air conditioning systems and components,
- install and calibrate related controls (including wiring), and
- start-up systems, test lines to detect leaks, and record the readings taken to ensure that the system is functioning satisfactorily.

Maintenance work involves checking all parts of a system, lubricating moving parts and monitoring the refrigerant charge. When there is a malfunction, refrigeration and air conditioning mechanics diagnose the problem and fix the unit by replacing or repairing controls, electric wiring or other parts. Mechanics also repair heating equipment, troubleshoot gas-fired equipment and calibrate all gas-related controls.

## What kind of working conditions can I expect?

The working environment for refrigeration and air conditioning mechanics varies greatly from one job to another. They work in compressor rooms and on roof tops as well as in clean, comfortable computer rooms. They

normally work 40 hours a week on a year-round basis. There may be some risk of injury involved in working with electricity, gases under high pressure and hazardous gases.

## What are some skills that are valued in this profession?

- mechanical ability and interest,
- good coordination and manual dexterity,
- strength, stamina and the use of proper lifting techniques required to handle heavy tools and parts weighing up to 25 kilograms,
- the ability to work well with co-workers, deal with customers, and problem solve, and
- the ability to drive a service truck to worksites.

## What is the minimum requirement to become an apprentice in this trade?

Apprentices must obtain a minimum of 70% on the Trades Entrance Exam – TEE Category #2 or the equivalent education as outlined below. This must be done before signing the Apprenticeship contract and attending training.

## How long will it take to complete a Refrigeration and Air Conditioning Mechanic apprenticeship?

An apprenticeship takes about four years to complete and includes four on the job periods and four technical training periods. You need to complete 1800 hours per period, for a total of 7200 hours.

## How long is technical training?

Apprentices will attend 960 technical training hours. Apprentices usually go to school for this program in Alberta.

Eligibility Requirements
Entrance Exam – Pass Exam 5 with a score of 70% or higher <b>or</b> Completion of the following high school courses
<ul style="list-style-type: none"> <li>• English 20-2 (pass) or Literacy 30 (pass)</li> <li>• Math 10C (pass)</li> <li>• Science 10 (pass)</li> </ul>
<b>or</b>
All five Canadian General Educational Development (GED) tests
<b>SCHOOLS NORTH APPRENTICESHIP PROGRAM (SNAP) - SNAP</b> apprentices are not required to satisfy the entrance requirements prior to signing an apprenticeship contract. However, the SNAP apprentice must satisfy the entrance requirements <b>or</b> write the TEE before attending technical training.

Period	Technical Training <sup>1</sup>	Prerequisites for technical training	Hours <sup>2</sup>
<b>1st</b>	8 Weeks 240 hours	Entrance Exam and 900 hours	1800
<b>2nd</b>	8 Weeks 240 hours	Completed 1 <sup>st</sup> Period	3600
<b>3rd</b>	8 Weeks 240 hours	Completed 2 <sup>nd</sup> Period	5400
<b>4th</b>	8 Weeks 240 hours	Completed 3 <sup>rd</sup> Period	7200

<sup>1</sup>Length of In-School Training

<sup>2</sup>Minimum Time Required to Complete (Includes Technical Training)

For more information:

[www.gov.nt.ca/Apprenticeship](http://www.gov.nt.ca/Apprenticeship)