



# Refrigeration and Air Conditioning Mechanic

**L**earn to install, maintain, repair and overhaul industrial, commercial and residential refrigeration and air conditioning systems and their component parts.

If you like to work with little supervision, like having a variety of tasks and are a creative problem solver, you will enjoy a career as a refrigeration and air conditioning mechanic.

At installation sites, you'll 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, you will diagnose the problem and fix the unit by replacing or repairing controls, electric wiring or other parts. You may also repair heating equipment, troubleshoot gas-fired equipment and calibrate all gas-related controls.

This is a compulsory trade - to work in this trade you need to hold a recognized trade certificate or be a registered apprentice.

## Is this the right fit for me?

Students who have the following characteristics see greater success in the trade:

- 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 and deal with customers
- the ability to drive a service truck to worksites
- pride in workmanship and the desire to attain a superior level of expertise
- a commitment to safe work habits

## Credentials

Upon successfully completing the required working hours and technical training periods, graduates will be awarded journeyman status by Alberta's Apprenticeship and Industry Training.

This is a Red Seal Endorsed trade – a recognizable standard that allows tradespeople to work across Canada.

## Costs 2022/23

### Tuition and fees\*

Period	Tuition fees	SAIT fees	Saitsa fees	Total
1	\$960	\$231	\$72	\$1,263
2	\$960	\$231	\$72	\$1,263

## SAIT fees

Campus recreation fee: \$49

Lab and material fee: \$82

Student support fee: \$50

Student technology fee: \$50

## Books and supplies\*

- Books or modules along with other items for class average out to \$600 per period.
- It is recommended that you do not purchase books or modules ahead of time as they might be outdated by the time you attend classes and they cannot be returned to the bookstore.
- Personal Protective Equipment will be required for the program, which may be an additional cost to apprentices.

\*Tuition, fees, books and supply costs are subject to change.

[Learn more about paying for your apprenticeship >](#)