



Industrial Mechanic (Millwright)

Learn how to install, maintain, repair and troubleshoot stationary industrial machinery and mechanical equipment in sites such as factories, production plants and recreational facilities.

If you enjoy performing a wide variety of tasks and precision work on large machinery and equipment, then you'll like working as an industrial mechanic.

The average day for an industrial mechanic is to read diagrams, schematic drawings and service manuals to determine work procedures on various different types of equipment. You'll operate rigging equipment and dollies to place heavy machinery parts as you assemble or disassemble equipment.

You'll fit bearings, align gears and shafts, attach motors and connect couplings and belts to precise tolerances to ensure the equipment will function properly.

Throughout the process, you'll align and test equipment, perform predictive and operational procedures and repair or replace defective parts. Hydraulic and pneumatic systems may need your repair or service.

During your apprenticeship training, you'll learn about welding, electrical work, hydraulics, and manual machining – dynamic skills that will allow you to tackle a variety of jobs on site.

This is a non-compulsory trade – individuals can work in the trade without certification if the employer deems the individual to have the skills of a journeyperson. However, individuals who are working in the trade and learning the trade must become a registered apprentice.

Is this the right fit for me?

Students who have the following characteristics see greater success in the industrial mechanic (millwright) trade:

- the ability to visualize a layout by looking at plans and prints
- the ability to comprehend and troubleshoot mechanical systems
- mechanical aptitude
- good coordination and manual dexterity
- the ability to get along with and supervise others
- a commitment to safe work habits

Credentials

Upon successfully completing the required working hours and apprenticeship education periods, graduates will be awarded journeyperson status by Alberta's Apprenticeship and Industry Training.

Industrial mechanic (millwright) 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
3	\$960	\$231	\$72	\$1,263
4	\$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 >](#)