



Industrial Mechanic (Millwright)

About this job

Industrial mechanics are safety minded, good at trouble shooting, and have an excellent comprehension of mechanical systems. They keep industrial equipment running smoothly, and help avoid risky, costly, or inconvenient breakdowns.



**MILLWRIGHT FALLS UNDER NATIONAL OCCUPATION CLASSIFICATION
(NOC) CODE #7311/72400**



- **Four-year program**
- **Eligible for Red Seal Endorsement**
- **Requires out of the territory technical training**
- **High Demand Trade**
- **Construction**
- **Manufacturing**
- **Mining**

\$147,161

Estimated Average Journeyperson Salary

APPRENTICESHIP, TRADES, AND OCCUPATIONAL CERTIFICATION

Aussi disponible en français

What can I expect to do for work if I become a Millwright?

Industrial Mechanic - Millwrights install, maintain, and repair stationary industrial machinery and mechanical equipment in places like factories, production plants and recreational facilities. On a typical job Millwrights:

- read diagrams and schematic drawings and service manuals to determine work procedures,
- operate rigging equipment and dollies to place heavy machinery and parts,
- fit bearings, align gears and shafts, attach motors, and connect couplings and belts to precise tolerances,
- align and test equipment, and make any necessary adjustments,
- perform predictive and operational procedures;
- repair or replace defective parts,
- service and repair hydraulic and pneumatic systems,
- may do some tack welding (a weld that is a temporary fix until it can be welded by an apprentice or journeyman welder), and
- fabricate and maintain an inventory of replacement parts.

What kind of working conditions can I expect?

There is a strong emphasis on safety while working with machinery. They often work in close association with other trades people such as machinists, instrument technicians, welders, electricians and steamfitter-pipefitters. On construction job sites, they are exposed to a variety of weather conditions. In plant maintenance, they may work indoors and outdoors. Hours of work may vary and shift work and some overtime may be required.

Eligibility Requirements

Entrance Exam – Pass Exam 5 with a score of 70% or higher
or

Completion of the following high school courses

- English 20-2 (pass) or Literacy 30 (pass)
- Math 10C (pass)
- Science 10 (pass)

or

All five Canadian General Educational Development (GED) tests

SCHOOLS NORTH APPRENTICESHIP PROGRAM (SNAP) - SNAP
apprentices are not required to satisfy the entrance requirements prior to signing an apprenticeship contract. However, the SNAP apprentice must satisfy the entrance requirements **or** write the TEE before attending technical training.

What are some skills that are valued in this profession?

- strength, stamina and the use of proper lifting techniques required for handling items weighing up to 25 kilograms,
- good coordination and manual dexterity,
- the ability to visualize a layout by looking at plans and prints,
- the ability to comprehend and trouble-shoot mechanical systems, and
- the ability to get along with and supervise the work of others.

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 technical training.

How long will it take to complete a Millwright 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.

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

¹Length of In-School Training

²Minimum Time Required to Complete (Includes Technical Training)

For more information:

www.gov.nt.ca/Apprenticeship