

INDUSTRIAL

NOC 7311

INDUSTRIAL MECHANIC MILLWRIGHT (A.C.A. non-restricted certified trade)



WORK DESCRIPTION

What would I be doing?

Industrial Mechanics Millwrights install, maintain and repair stationary industrial machinery and mechanical equipment.

Millwrights:

- read and interpret diagrams and schematic drawings to determine work procedures,
- install stationary industrial machinery and mechanical equipment according to layout plans using hand and power tools,
- operate hoisting and lifting devices to position machinery and parts during the installation, set-up and repair of machinery,
- construct foundations for machinery or direct other workers to construct foundations.

Industrial Mechanic Millwrights work indoors, usually in industrial settings that may be noisy and potentially hazardous. There is heavy lifting and bending. Shift work is not unusual and a five day work week of 35 to 40 hours is standard.

PLACE OF WORK

Who needs Industrial Mechanic Millwrights?

- manufacturing,
- automotive parts and assembly,
- textile industry,
- food processing,
- mining and forestry industries,
- some millwrights are self employed.

CONDITIONS OF WORK

An Industrial Mechanic Millwright is a non-restricted certified trade. A person may or may not have a valid Certificate of Qualification but a registration as an apprentice is recommended to work in the trade. A Cooperative Education student, who is not a signed apprentice, does not have to be paid. An apprentice **may** be paid wages.

SALARIES/WAGES

The salary depends on the employer, years of experience, and level of training. In unionized places the wages and conditions of work are negotiated collectively.

In the Elgin, Middlesex and Oxford area, Industrial Mechanic Millwrights can earn \$ 16.36 - \$ 22.82 per hour, averaging \$ 20.39 per hour.

(Next)

PROSPECTS of EMPLOYMENT in the Elgin, Middlesex and Oxford area

RATING: *good*

With the aging population of Millwrights, there is the potential for a shortage of skilled workers, depending on the rate of growth and development in the industry.

APPRENTICESHIP IN THE INDUSTRIAL MECHANIC MILLWRIGHT TRADE

- takes about 4 years or 8 000 h, including 720 h of in-school post secondary training; prior education and experience may shorten the time to complete all the competencies,
- completion of the apprenticeship entitles a person to a Certificate of Apprenticeship,
- must pass the Certificate of Qualification exam to receive a Certificate of Qualification with journeyperson status,
- offers (optional) an Interprovincial Trade Certification (Red Seal).

In-School Education:

An OYAP student must be 16 years old and completed Grade 10 (or equivalent). Otherwise, all apprenticeship applicants must successfully complete Grade 12 (OSSD) or equivalent. The following competencies are valuable:

English, *Communication and*
Mathematics, *analytical skills*
Science, *problem solving*
Design Technology (Drafting),
Manufacturing Technology (Mechanics).

OYAP students must be full-time students in high school and those who obtain apprenticeships will complete the apprenticeship curriculum in college or an approved Training Delivery Agent.

Specific skills learned in school are: safety, applied trade calculations, engineering drawings/layout, NC/CNC technology, seals and packing, power transmission system, compressors and pumps, welding, fans and blowers, pneumatics and hydraulic systems.

On the Job Training

- As a high school Cooperative Education credit (towards O.S.S.D.), learning is connected to one of the school subjects.
- The Apprentices must follow a program in the **Apprenticeship Training Standards** book which is given to them in the workplace when they register. As each competency is achieved the employer signs it off.

OPPORTUNITY TO GROW

A Certificate as a journeyperson is not required to start working as a millwright but an apprenticeship is recommended. After that, an Industrial Millwright may:

- become a foreperson or a supervisor,
- start own business as a contractor,
- work in related areas or occupations.

RELATED OCCUPATIONS

- Machined Parts Inspector,
- Machine Shop Inspector,
- Machining Inspector.
- Industrial Electrician

CONTACT INFORMATION

Whom should I call?

School Guidance/Co-Op Office

Apprenticeship Office 519 675 7788

London: 1 800 265 1050

Apprenticeship web : www.edu.gov.on.ca

EMOLTB web site: www.localboard.on.ca

Training Hotline: 1 800 387 5656

Union: