

CONSTRUCTION

NOC 7311

CONSTRUCTION MILLWRIGHT (T.Q.A.A., voluntary certified trade)

WORK DESCRIPTION

What would I be doing?

Construction 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.

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

PLACE OF WORK

Who needs Construction Millwrights?

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

CONDITIONS OF WORK

A Millwright is a voluntary 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. Under TQAA, for **voluntary** trades, the Cooperative Education student does not have to be a registered apprentice and therefore does not have to be paid during school hours. **Students who become registered apprentices may be paid** according to the Regulations.

SALARIES/WAGES

The salary of the Construction Millwrights depends on the employer. In unionized places the wages and conditions of work are negotiated collectively. The rate of wages for an apprentice is a specified percentage of a journeyperson's wage according to experience and level of training.

In the Elgin, Middlesex and Oxford area, Construction 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: *fair*

The demand for skilled millwrights depends largely on the economic climate.

APPRENTICESHIP IN THE CONSTRUCTION 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,
- must pass the Certificate of Qualification exam to receive both a Certificate of Apprenticeship and a Certificate of Qualification with journeyman status,
- Interprovincial Trade Certification (Red Seal) is not available in this trade.

In-School Education:

An OYAP student must be 16 years old and have completed Grade 10 (or equivalent).

Otherwise, Grade 10 is the minimum requirement, however, completion of Grade 12 (OSSD) is advantageous. The following competencies are valuable:

English, *Communication and*
Science, *analytical skills*

Mathematics,

Design Technology (Drafting),

Manufacturing (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, precision measuring, NC/CNC technology, hand and power and machine tools, materials and

fasteners, lubricants, bearings, seals and packing, rigging and hoisting, power transmission system, compressors and pumps, welding, brazing, and soldering, 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 journeyman is **not** needed to start working as a millwright but an apprenticeship is recommended. After that, a Construction Millwright may:

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

RELATED OCCUPATIONS

- Automotive Machinist,
- Machine Shop Inspector,
- Tooling or Machining Inspector.
- Industrial Mechanic Millwright

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: Millwrights Local 1592

519 337 7021