

INDUSTRIAL

NOC 9511

MACHINING TOOL OPERATORS (MOULD MAKER) (A.C.A., non-restricted certified trade)

WORK DESCRIPTION

What would I be doing?

Mould Makers are machinists who:

- read and interpret drawings, and specifications of moulds and prototypes or models,
- repair, design and make moulds to mass produce plastic or metal components and products,
- compute tolerances and set up machines,
- use metal-cutting machines and specialized equipment to build moulds and models,
- fit and assemble moulds for plastic injection moulding or other production processes,
- fabricate mould components,
- finish and polish moulds for the moulding process.

Mould Makers work indoors, usually in industrial settings that may be noisy and potentially hazardous. There is a lot of standing while the machine is working. Shift work is not unusual and a five day work week of 40 to 45 hours is standard.

PLACE OF WORK

Who needs Mould Makers?

- manufacturing,
- industries,
- mould making shops,
- some mould makers are self- employed.

CONDITIONS OF WORK

A Mould Maker is a non-restricted certified trade.

A person may or may not have a valid Certificate of Qualification but 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,
Mould Makers can earn \$10.90 -
\$ 18.54 per hour, averaging \$ 15.92
per hour.***

(Next)

PROSPECTS of EMPLOYMENT in the Elgin, Middlesex and Oxford Area

RATING: *good*

Employers report difficulties in finding qualified workers to fill vacant positions. Many job openings will be created yearly from the need to replace workers who retire.

APPRENTICESHIP IN THE MOULD MAKER TRADE

- takes about 4 years or 8 000 h, including 720 h of in-school training; prior education and experience may shorten the time to complete all the competencies,
- must complete the apprenticeship to receive a Certificate of Apprenticeship,
- must pass the Certificate of Qualification exam to receive A Certificate of Qualification with journeyperson status,
- Interprovincial Trade Certification (Red Seal) is not available.

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,	<i>Communication and</i>
Mathematics,	<i>analytical skills,</i>
Physics,	<i>dexterity and ability</i>
Manufacturing (Machining)	<i>to visualize multi-dimensions.</i>

Design Technology (Drafting).

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 development, tool geometry/tool and cutter grinding technology, turning technology, milling technology, NC/CNC technology for mould making.

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 Mould Maker but an apprenticeship is recommended. After that, a Mould Maker may:

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

RELATED OCCUPATIONS

- Machined Parts Inspector,
- Machine Shop Inspector,
- Tool and Die Maker.

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: