

CONSTRUCTION

NOC 7371

HOISTING ENGINEER, Branch 3 (T.Q.A.A., compulsory certified trade)

WORK DESCRIPTION

What would I be doing?

There are several different jobs that hoisting engineers do. One job involves operating a mobile crane. A "Tower Crane" is a mechanical device or structure capable of moving loads in both vertical and horizontal planes. It is of a fixed, traveling, or climbing type and includes a boom, power driven drum, and a wire rope to raise, lower or lift material. A Hoisting Engineer:

- maintains and operates tower cranes that are capable of lifting and moving weights of more than 7 000 kg,
- moves machinery or materials from place to place on a construction site, port, industrial site or railway yards.

PLACE OF WORK

Who needs Hoisting Engineers?

- Docks or Ports,
- Railway Yards,
- Construction Contractors,
- Industry (Hoisting Engineers load and unload ships, trains, or to move materials at a construction or industrial site).

CONDITIONS OF WORK

A Hoisting Engineer is a compulsory certified trade, T.Q.A.A. trade. A person must have a valid Certificate of Qualification or be registered as an apprentice. Under TQAA, for **compulsory trades**, the Cooperative Education student **may be a registered apprentice and may be paid** according to the Regulations.

SALARIES/WAGES

The salary of Hoisting Engineers 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, Hoisting Engineers can earn \$ 15.02 - \$ 19.65 per hour, averaging \$ 17.48 per hour.

(Next)

PROSPECTS of EMPLOYMENT in the Elgin, Middlesex and Oxford Area

RATING: *excellent*

There is currently a very serious shortage of licenced, skilled Hoisting Engineers.

APPRENTICESHIP IN THE HOISTING ENGINEER TRADE, BRANCH 3

- takes about two years or 4 000 h, (including about 6 weeks of the in-school post secondary school 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,

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 skills*
Construction Technology.

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, communications, crane components and devices, pre-operation, pre-lift set-up and planning, assembly and disassembly of a crane, transporting a crane, operating a crane, maintenance.

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. Must be signed as an apprentice to qualify for Cooperative Education.
- 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 of Qualifications or a registration as an apprentice is required to start working as a hoisting engineer. After that, a Hoisting Engineer may:

- pursue Branch 1 qualifications,
- become a foreperson or a supervisor,
- operate other types of cranes,
- pre-lift planner,
- work in related areas or occupations.

RELATED OCCUPATIONS

- Heavy Equipment Operator,
- Boom Truck Operator,
- Bridge Crane Operator.

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: International Union of Operating Engineers, Local 793 519 451 7430