

CONSTRUCTION

NOC 7262

CONSTRUCTION BOILER MAKER (T.Q.A.A. , voluntary certified trade)



WORK DESCRIPTION

What would I be doing?

Construction Boiler Makers build and maintain very large tanks, such as:

- boilers and pressure tanks in power stations, refineries, and chemical plants,
- pollution control devices,
- furnaces,
- water towers and heat exchangers.

Boiler Makers perform some or all of the following tasks:

- read blueprints or specifications and lay out steel plates accordingly,
- operate heavy-metal working machines to cut and shape metal,
- fit and weld metal parts,
- erect and install boilers.

An important consideration is the need to travel to different locations where work is offered.

Shift work is not unusual and a five day work week of 35 to 40 hours is standard. Work is heavy, indoors and outdoors and requires good physical fitness. Machine operation and noise as well as dangerous materials can present hazardous conditions.

PLACE OF WORK

Who needs a Boiler Makers?

- construction companies,
- manufacturing,
- boiler fabrication,

- industry

CONDITIONS OF WORK

Construction Boiler Maker is a voluntary certified trade.

A person does not have to have a valid Certificate of Qualification to work in the trade but being registered as an apprentice is recommended. 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 Boiler Makers 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, unionized Boiler Makers can earn between \$ 17.00 and \$ 28.00 per hour, averaging \$ 22.50 per hour.

(Next)

PROSPECTS of EMPLOYMENT in the Elgin, Middlesex and Oxford area

RATING: *fair*

The construction Boiler Maker trade depends heavily on economic conditions.

APPRENTICESHIP IN THE BOILER MAKER TRADE

- takes 3 to 4 years or about 6 800 h, including 720 h of post secondary in-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,
- Interprovincial Trade Certification (Red Seal) is available.

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*
Mathematics, *Problem solving skills*
Design Technology (Drafting),
Physics, Geometry.

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, blue print reading, metal bending, metal cutting, welding, fitting, hazardous chemicals, hoisting, rigging and crane use.

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 Boiler Maker but a registration in the apprenticeship is recommended. Once the apprenticeship is completed, a journeyman may:

- become a foreperson or a supervisor,
- become an inspector,
- work in related occupations.

RELATED OCCUPATIONS

- Boiler Fitter, Boiler Installer,
- Structural Metal and Plate, Fabricators and Fitters.

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 Brotherhood of Boiler Makers Local 128 519 336 6051