

BOILERMAKER



ANNUAL SALARY: \$73,000 - \$82,000* | NOC: 7234 | Red Seal & Compulsory Certified Trade¹

**Based on a 40-hour work week at current collective agreement rates for journeypersons. Does not include benefits.*

WHAT WE DO

Boilermakers who are working in construction will build, erect, repair, test, install and maintain boilers, tanks, and pressure vessels. Planning is a large part of their job as they develop layouts and work plans, assemble plates, sheet steel, and other heavy metals, and mark lines before shaping, cutting, and fitting the metal parts together using various machines. In fact, they perform a variety of tasks in construction environments, their projects ranging from the construction and maintenance of pulp mills, water treatment plants, and ship yards, to electric power generating stations and breweries. An experienced boilermaker can progress to a role as a foreman or superintendent, or transfer their skills to other trades. Boilermakers **work indoors or outdoors and with heavy machinery and power tools** that may weigh as much as 100lbs. They **work in a team or independently, at heights** as great as 300ft, and **in confined spaces**. They need to **be capable of climbing** onto staging of all types. People suited for this work are **safety aware** to avoid potential exposure to hazardous materials, **fair decision-makers, perceptive, agile**, and have good **coordination, physical strength, and knowledge of math, mechanics and physics.**²

PREPARATORY WORK

- Research the labour market, job shadow or take a test drive in a trade
- 500 hours toward apprenticeship can be obtained from approved public school programs and experiences like Cooperative Education, Skilled Trades, the Options and Opportunities (O₂) Program, and Building Futures for Youth. 16- to 19-year-olds can become a Youth Apprentice.³
- Take youth health and safety courses where offered in the province of Nova Scotia
- High School Diploma or Equivalency⁴

PRE-APPRENTICESHIP & PRE-EMPLOYMENT PROGRAMS⁵

- Memorial Composite High School (<http://www.cbv.ns.ca/mchs>) Welder Program worth 1000 apprenticeship hours transferable to boilermaker trade designation when you register as an apprentice with the NS Apprenticeship Agency (NSAA)
- 42-week and 24-week Basic Welding and High Pressure Pipe Welding Programs from New Dawn College (<http://newdawn.ca/college/welding>) worth 1000 apprenticeship hours transferable to boilermaker trade designation
- Le Collège communautaire du Nouveau-Brunswick (<http://www.ccnb.nb.ca>) 40-week Pre-Employment Soudage Program worth 1000 apprenticeship hours transferable to boilermaker trade designation
- Two-year Metal Fabrication Diploma and two-year Welding Diploma (each worth 1000 apprenticeship hours transferable to boilermaker trade designation) and 22-week Welding Certified Certificate of Accomplishment (worth 600 apprenticeship hours transferable to boilermaker trade designation) from the Nova Scotia Community College⁶

DIRECT ENTRY⁷

- Gain employment in a workplace with at least one journeyperson and register as an apprentice
- Must complete 5400 hours of on-the-job experience and four levels of technical training off the job site in block releases of six weeks, beginning with entry level units
- Must write your Red Seal Interprovincial Standards Examination and obtain a Certificate of Qualification in the trade from the NSAA
- Additional training is available through the International Brotherhood of Boilermakers, Iron Ship Builders, Blacksmiths, Forgers and Helpers, Local 73

¹ <http://nsapprenticeship.ca/trades>. You **must** be or be working towards becoming certified to work in this trade in NS.

² <http://www.red-seal.ca>, <http://www5.hrsdc.gc.ca>, <http://www.boilermakers359.org>, <http://boilermaker.ca>, <http://www.careersinconstruction.ca/en/career/boilermaker> and <http://careers.novascotia.ca/occupation/345>

³ <http://nsapprenticeship.ca>, <http://www.ednet.ns.ca>, <http://www.workitns.ca> and <http://www.buildingfutures.ca>

⁴ <http://gov.ns.ca/just/regulations/regs/atqgenrl.htm>

⁵ <http://nsapprenticeship.ca>

⁶ http://www.nsc.ca/learning_programs

⁷ <http://nsapprenticeship.ca>, <http://gov.ns.ca/just/regulations/regs/atqboilermaker.htm> and <http://boilermaker.ca/apprenticeship.htm>

BOILERMAKERS' CAREER PATHWAY

Cooperative Education: Grades 10, 11 and 12 and at least 16 years of age to be eligible. Provides 100 apprenticeship hours per course credit.

Skilled Trades: High school courses satisfying academic requirements and providing 110 apprenticeship hours per course credit (Grades 10 and 11) and a 100-hour co-op placement.

O₂ Program: In-school learning and on-the-job training through 100-hour co-op placements. Available in select high schools. The *Building Futures for Youth Program* is offered primarily for students already enrolled in O₂ or cooperative education and provides upwards to 300 apprenticeship hours in 3 co-op credits.

Youth Apprenticeship: Ages 16-19. Paid hours that can be counted toward trade designation. Find a certified employer and register with the province (\$14.89 fee for identification). May overlap with co-op placements in high school.

Grade Twelve Diploma or Equivalent

Other Education Programs:

Complete a college or trade school program for advanced credit or experience. Find an employer and register with NSAA for \$148.18 as a new adult apprentice (if not previously enrolled as a youth apprentice).

Direct Entry:

Obtain employment on own or by contacting a union for indenturing and register with NSAA for \$148.18 (if not previously enrolled as a youth apprentice and continuing under the same employer).

Technical Training for the Nova Scotia Boilermaker Apprenticeship Program

(\$90.20 per week. In some cases, it is available in online format. Youth apprentices are exempted until after high school.)

Level 1 – 6 weeks

*During 0-1800 hrs. of apprenticeship***)*

Level 2 – 6 weeks

1801-3600 hrs.

Level 3 – 6 weeks

3601-5400 hrs.

0-900 hours of employment at 40% of journeyperson rate*

\$14.62 – \$19.71 / hr**

901-1800 hours of employment at 50% of journeyperson rate

1801-2700 hours of employment at 60% of journeyperson rate

\$21.92 – \$27.59 / hr

2701-3600 hours of employment at 70% of journeyperson rate

3601-4500 hours of employment at 80% of journeyperson rate

\$29.23 – \$35.47 / hr

4501-5400 hours of employment at 90% of journeyperson rate

Interprovincial Standards Examination for Designation (\$148.18)

* Boilermaker Trade Regulations for NS. Assumes full-time employment.

** Average hourly pay under collective agreement rates for mainland NS and Cape Breton Island apprentices as of summer 2016. Apprentices may also be able to access employment insurance benefits while in class and tax incentives (refer to <http://nsapprenticeship.ca/about/financial-assistance>).

*** 6 months of work is considered equivalent to approximately 1000 credit hours. If a program is taken that is pre-approved for advanced credit, an apprentice may be credited with equivalent on-the-job hours and technical training credits.

Note: NS apprenticeship registration and technical training fees are current as of April 2016. If an individual applies to be certified on past experience, they must go through the trade qualification program (<http://nsapprenticeship.ca/sites/default/files/docs/forms/TQGP.pdf>) at a cost of \$740.77.