

Welders

A guide for newcomers to British Columbia



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1. Working as a Welder

[NOC 2021: 72106 / NOC 2016: 7237]

Job Description

Working as a welder you perform some or all of the following duties:

- Read and interpret blueprints or welding process specifications
- Operate manual or semi-automatic welding equipment to fuse metal segments using processes such as
 - gas tungsten arc welding (GTAW)
 - gas metal arc welding (GMAW)
 - flux-cored arc welding (FCAW)
 - plasma arc welding (PAW)
 - shielded metal arc welding (SMAW)
 - oxy-acetylene welding (OAW)
 - resistance welding and submerged arc welding (SAW)Arc
- Operate manual or semi-automatic flame-cutting equipment
- Operate metal shaping machines such as brakes, shears and other metal straightening and bending machines
- Repair worn parts of metal products by welding on extra layers.
- May maintain and repair welding, brazing and soldering equipment
- You may specialize in certain types of welding such as custom fabrication, ship building and repair, aerospace precision welding, pipeline construction welding, or equipment repair welding

Source: National Occupational Classification (NOC) <https://noc.esdc.gc.ca/>

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Industry Overview

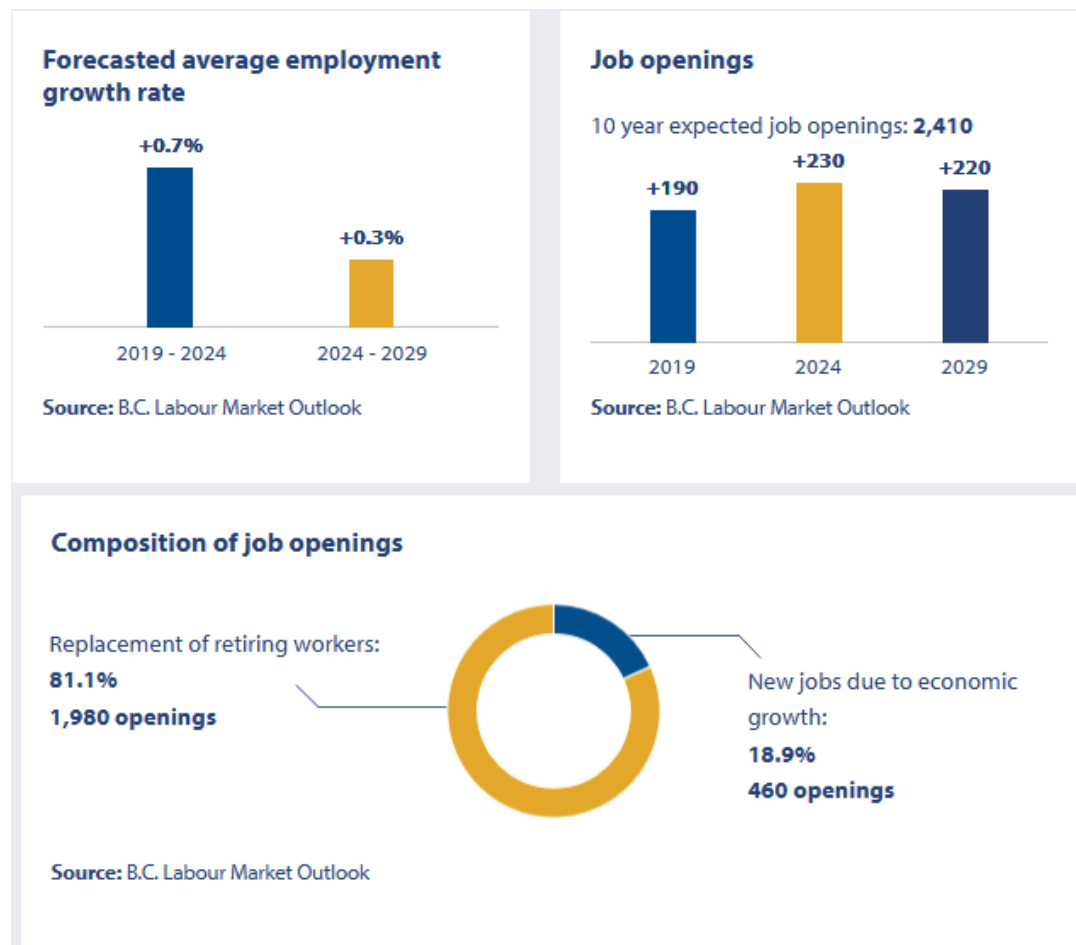
Technological improvements such as increased automation are decreasing the number of new jobs for welders. However, highly skilled welding machine setters and operators may see an increase in demand as a result of these new technologies.

The greatest demand for welder jobs will be in construction-related manufacturing, such as architectural and structural metal fabrication. There are limited employment opportunities for welders in the wood product manufacturing sector.

Source: WorkBC Career Profile for Welders and related machine operators, <https://www.workbc.ca/career-profiles/welders-and-related-machine-operators>

Job Outlook in BC

Welders and related machine operators



WorkBC provides job openings in BC regions from 2019-2029:

Region	Employment in 2019	Average Annual Employment Growth	Expected Number of Job Openings
Vancouver Island	1,340	0.7%	370
Lower Mainland/ Southwest	4,690	0.4%	1,190
Thompson-Okanagan	1,210	0.5%	340
Kootenay	680	0.0%	150
Cariboo	730	0.5%	150
North Coast & Nechako	400	-0.4%	40
Northeast	420	2.3%	190

You can learn more about working as a welder in BC from:

- **WorkBC Career Profiles**
<https://www.workbc.ca/career-profiles/welders-and-related-machine-operators>
- **Career Cruising**
<https://www.vpl.ca/digital-library/career-cruising> [profile for Welder]
 Available from the VPL Digital Library | Explore our Digital Library page

Types of Employers

As a welder you may work for:

- manufacturing / factories
- machine shops
- construction sites
- oil and gas rigs and pipelines
- welding contractors and welding shops
- self employed

Those working in manufacturing may work at: sawmills; pulp and paper mills;

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mines; shipbuilding or aircraft manufacturing facilities; other metal products.

Salary

In BC, the median annual salary for welders and related machine operators is \$60,482. Your salary depends on job requirements, work conditions and location.

Journey-level welders often earn around \$19 to \$32 an hour. Highly experienced welders can earn \$50 an hour, depending on what type of welding is required.

Those working on pipelines in remote locations may make up to \$100,000 a year.

Sources: WorkBC and Career Cruising

In BC regions you can expect to make:

Community/Area	Wages (\$/hour)		
	Low	Median	High
British Columbia	22.00	29.00	42.26
Cariboo Region	24.00	34.00	43.00
Kootenay Region	24.00	30.65	42.00
Lower Mainland–Southwest Region	20.00	27.00	38.00
Nechako Region	22.00	29.00	42.26
North Coast Region	23.00	36.50	50.00
Northeast Region	22.00	29.00	42.26
Thompson–Okanagan Region	24.50	30.00	42.00
Vancouver Island and Coast Region	18.00	32.00	42.00

Source: Job Bank Wage Report <https://www.jobbank.gc.ca/trend-analysis/search-wages>

Working Hours

Most welders work 40 hours per week. If you are working in mills, factories and processing plants you may be required to work nights / weekends, or do shift work.

Welders in the construction industry often relocate to different job sites, sometimes in remote regions. Short periods of unemployment between projects are common for these workers.

2. Skills, Education and Experience

Skills

- good manual dexterity and hand-eye coordination
- good analytical ability
- high level of design sense
- solid understanding of computerized machinery
- ability to follow instructions precisely
- strong technical and artistic interests
- comfortable with heights

Education and Experience

- Completion of secondary school is usually required.
- Certification is available in BC but not required

Qualifications

This is not a regulated profession in BC

Trade certification is not mandatory in B.C., but it will likely increase your job opportunities. Two separate pathways to certification are available: an Apprenticeship model comprising Levels 1-to-3, and the non-apprentice programs of Welder B and A. Each level requires a mix of documented training and work experience.

Individuals who have extensive experience working as a welder may also challenge the certification. This involves completing the Welder Challenge Application and submitting it to Industry Training Authority BC (ITA). Challenge applications are assessed for proof of workplace hours and scope of experience prior to acceptance into the Challenge Pathway.

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Individuals completing the apprenticeship program are qualified to take the Interprovincial Red Seal exam (the final exam for this trade). If successfully passed, you receive the *Red Seal* endorsement, which allows you to work as a welder anywhere in Canada. An optional *Multi-Process Alloy Welding (MPAW)* endorsement is also available.

More information:

- **Skilled TradesBC – Welder Program**
<https://skilledtradesbc.ca/welder>
- **Trades Training BC**
<https://www.tradestrainingbc.ca/Trades/Metal-Forming-Shaping-Welding/Welder-Foundation>
- **Red Seal Program**
<https://www.red-seal.ca/eng/w.2lc.4m.2.shtml>

3. Finding Jobs

You'll find job advertisements in local newspapers, electronic sources, as well as through professional associations' publications.

Local Newspapers

You can look at the *Vancouver Sun* & *The Province* at Vancouver Public Library for free. Check the job postings daily, the careers section in the *Vancouver Sun* on Wednesdays and Saturdays and, in *The Province* on Sundays.

Online Job Postings

- **Indeed.com**
https://ca.indeed.com/advanced_search
- **WorkBC Job Postings**
<https://www.workbc.ca/search-and-prepare-job/find-jobs#/job-search>
- **Skilled Trades Employment Program (STEP)**
<https://www.stepbc.ca/>
- **Job Bank**
<https://www.jobbank.gc.ca/findajob>

Identifying the Right Position

When you browse job advertisements, you'll find a range of different job titles that are relevant.

For welders, look for these related job titles:

- welding technician
- brazing machine operator
- arc welder
- journeyman/woman welder
- laser welding operator
- pressure vessel welder
- soldering machine operator
- spot welder
- welder apprentice
- welder-fitter

Source: NOC <https://noc.esdc.gc.ca/>

Creating a List of Potential Employers

You can use directories to produce lists of employers who employ welders in Vancouver or the Lower Mainland. Contact them directly to find out if they're hiring.

- **British Columbia Business to Business directory**
Browse through companies listed under Section 2 - Industry (welding)
Available at the Central Library, CB380 B8622
- **Business in Vancouver Book of Lists**
Biggest Construction Companies in BC
Available at the Central Library, 338.9711 B97B or online <https://biv.com/lists>
- **British Columbia Construction Association Directories**
<https://www.bccassn.com/membership/>
- **Journal of Commerce Construction Directory**
<https://canada.constructconnect.com/joc/construction-directory>
- **Canadian Welding Bureau (CWB)**
<https://www.cwbgroup.org/certification-and-qualification/certified-directory-search>

- **Reference Canada**

<https://www.vpl.ca/digital-library/reference-canada>

Click on "Start Search" beside Canadian Businesses, then select the "Advanced Search" button. Select both "Keyword/SIC/NAICS" under Business Type and "City" under Geography. In the top search box enter "welding" and click SEARCH. Select the appropriate headings. Lower down, select the Province, choose the cities, and click the "View Results" button.

Available from the VPL Digital Library | Explore our Digital Library page

NOTE: You can access this database from a Library computer. If you are using a computer from outside the Library, you will need a Vancouver Public Library card to login to this database. After clicking on the database name, you will be asked to enter your library card number and PIN (usually last four digits of your telephone number)

4. Applying for a Job

In Canada, employers usually expect to receive a resume (curriculum vitae) and a cover letter that identifies the position you are applying for and summarizes your relevant experience.

Use the library catalogue, <https://vpl.bibliocommons.com/> to find books on writing resumes and cover letters specific to your industry.

To learn about applying for jobs in Canada, use the following guides which are available in print at the Central Library or online:

- **Writing Resumes and Cover Letters**

<https://www.vpl.ca/siic/guide/job-search-resources/writing-resumes-and-coverletters>

- **Getting Canadian Work Experience**

<https://www.vpl.ca/siic/guide/job-search-resources/getting-canadian-work-experience>

- **Networking for Employment**

<https://www.vpl.ca/siic/guide/job-search-resources/networking-for-employment>

- **Learn More About Working in BC and Canada**

<https://www.vpl.ca/siic/guide/job-search-resources/learn-more-about-working-in-bc-and-canada>

5. Getting Help from Industry Sources

- **Canadian Welding Bureau (CWB)**
<https://www.cwbgroup.org/>
- **Industry Training Authority - ITA BC**
<https://www.itabc.ca/>
- **BuildForce Canada**
<https://www.buildforce.ca/en>
- **Skilled Trades Employment Program (STEP)**
<https://www.stepbc.ca/>
- **BC Construction Association Integrating Newcomers**
<https://www.bccassn.com/jobs-&-careers/bcca-integrating-newcomers/default>
- **Careers in Construction**
<https://www.careersinconstruction.ca/en/careers/career-finder>

Industry Journals

Industry journals provide information about trends in the industry.

Examples at the Central Library and online:

- **Canadian Metalworking**
Available at Central Library 621.05 C21 and online at
<https://www.canadianmetalworking.com/>
- **Canadian Welding Bureau publications**
<https://www.cwbgroup.org/association/publications>

***Questions? Please ask the Information Staff in the Central Branch,
Vancouver Public Library, or telephone 604-331-3603.***

*Please note that the information in this guide is also available online through the
Skilled Immigrant InfoCentre website at <https://www.vpl.ca/siic>*



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