

SUPPORT STAFF

SSEAC

Education and Adjustment Committee

Apprenticeship Resources

The SSEAC recognizes that the employer, local, and potential apprentice may not have sufficient resources to make decisions pertaining to the apprenticeship. This document is meant to be a source connecting the parties to valuable information regarding apprenticeships in BC.

Service Canada

The Apprenticeship Incentive Grant (AIG) is a taxable cash grant available to registered apprentices once they have successfully completed their first or second year (level) of an apprenticeship program in one of the Red Seal trades. This program is delivered by Service Canada on behalf of Human Resources and Social Development Canada (HRSDC). For more information please visit <http://www.servicecanada.gc.ca/en/goc/apprenticeship.shtml>.

Industry Training Authority (ITA) Resources

An Employer Sponsor's and Apprentices guide to apprenticeships discussing the various party's obligations can be found at <http://www.itabc.ca/>. Additional resources on the ITA website include a list of the various trades and details regarding each apprenticeship, a list of schools where apprentice coursework can be taken, the forms that must be filled out in the course of an apprenticeship, a service fee schedule, and more.

Apprenticeship Toolkit

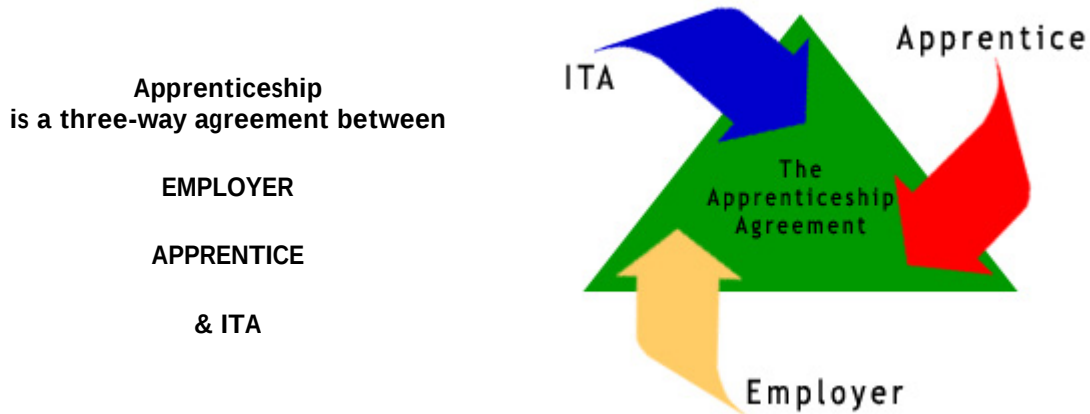
Another important resource is the Apprentice Development Toolkit website <http://www.cnc.bc.ca/apprenticetoolkit/> sponsored by the College of New Caledonia. This features a development manual covering a variety of topics including the hiring process, wage increment scales, workplace safety, employment standards, worksite training, apprenticeship record book, interview questions and much more. This site also demonstrates average apprenticeship costs for an employer sponsor and provides ideas for apprentice sharing when one employer does not have the resources or scope of work to carry an apprentice through all the years of an apprenticeship. In addition, the toolkit guides employers required to implement aptitude testing and also displays links to Math 11 and 12 study materials for potential apprentices. Furthermore, the Apprenticeship Process in BC and the BC Trades Information Grid resources can be found below or at the link above are. Apprentices can view a sample aptitude test found at <http://www.tradesbc.org/toolkit/aptitude.htm> to guide them in their preparation. The SSEAC will be providing districts with a template aptitude test to administer to the potential apprenticeship candidates. Given that this test and answer key will be distributed to all employers receiving funding from the Apprenticeship Opportunities Fund, it is important that employers further alter the template test given to them by the SSEAC so that apprentices in different school districts are not all receiving the same aptitude test.

For additional resources or if you have any questions regarding apprenticeships, please do not hesitate to contact either Michelle Cehak (604-730-4508) or Stephanie Tassin (604-730-4521).

Apprenticeship Process in BC

By the College of New Caledonia

Apprenticeship is a type of learning or internship for a trade that consists of on-the job training combined with post-secondary trades training. An apprentice spends 80% to 90% learning on the job and 10% to 20% learning in a trades classroom and/or shop environment.



The Role of the Employer

- To become a registered employer with the Industry Training Authority.
- To provide a safe learning and work environment to expose the apprentice to all areas of the trade to the extent that the facilities and working conditions of the business allow.
- To provide a competent journey person(s) to ensure a comprehensive exchange of trade knowledge and transferable skills.
- To allow the apprentice to attend technical training and to write examinations as required.
- Pay the apprentice's wages while the apprentice is on the job.
- To maintain a record of employment for the apprentice and to assist the apprentice in the maintenance and updating of their Apprenticeship Record Book.
- To recommend the apprentice for certification upon completion of their technical and on-the-job training.



The Role of the Apprentice

- To locate an employer willing to undertake them as an apprentice.
- To become a registered apprentice with the Industry Training Authority
- To know what is involved in your trade: to learn; to apply skill; and to work diligently and honestly for your employer.
- To take control of your own training and learning. You are responsible for your own success. You are responsible for selecting a recognized training institution that will meet your technical training needs.
- To maintain your Apprenticeship Record Book and ensure that your learning experiences are accounted for in a useable format.
- To work safely and familiarize yourself with the safety rules and regulations of each jobsite you encounter.

The Role of ITA

ITA is the Industry Training Authority recognized by the Province of British Columbia. Most services that apprentices and employers will access are delivered through the Industry Training Centre. The authority is mandated with:

- Registering apprenticeship agreements
- Assessing the exams and training hours for trades qualification challengers
- Accepting required assessment and exam fees
- Processing journeyman certificates and wallet cards for qualified apprentices and challengers
- To work with Industry and Training Providers to ensure that standards of training and completion of credentials are met and are consistent with industry needs, provincial regulations and the interprovincial Red Seal program in the applicable trades.

In terms of educational requirements, it is recommended that the apprentice have a Grade 12 education that includes English and Math courses. It is also recommended that the apprentice have a Grade 11 Physics and a basic computer course to deal with the technology required in industry.

Two Routes to Apprenticeship

There are two routes an apprentice can take to receive a trades qualification in BC or an inter-provincial trades certificate which is recognized across Canada. A person interested in pursuing a trade can prepare for an apprenticeship by taking an ELTT (Entry Level Trades Training) Program at a recognized training institution. An alternate method is to find an employer (in the trade you are interested in) who is willing to hire you and consider offering you an apprenticeship with their company.

Entry Level Trades Training Programs

These program allows an individual with no previous trades training to register at a recognized trades training institution and take an entry-level program specific to the trade they are interested in pursuing. The programs vary from 12 weeks to 10 months in length. These programs will provide the individual with an opportunity to acquire basic skills and knowledge required to work in industry in entry level positions. Students wishing to access entry level trades training may do so without a connection to an employer or industry. After the initial training period it is up to the student to search for employment in their industry of choice. ITA is available to assess prior learning and credit may be granted to individuals who successfully complete a recognized entry level trades program. In some trades the entry level training may be applied toward the first year requirements of a four year apprenticeship.

Although Entry Level Trades Training is not mandatory in British Columbia, it is considered by many employers and industries to be a pre-requisite for employment or apprenticeship agreements.

Apprenticeship

For most trades, the apprentice must complete up to 4 years of training on-the-job training in addition to formal training programs. Each year consists of both time spent on the job, usually working with or supervised by a qualified journeyman, and time spent in technical training classes. On-the-job training is meant to provide an opportunity for students to put into practice the theory that they learn in the classroom and lab environments. Technical training programs are designed to ensure that apprentices receive a broad based education related to their trade of choice and not all material learned in the classroom will be available to

every apprentice on every jobsite. In the interest of receiving the best of multiple work opportunities apprentices may want to consider the Apprentice-Share alternative.

- **Technical Training Classes**

Students now register and arrange for their own training at the institution of their choice. The employer and apprentice will determine the location of the training and will schedule the necessary training period(s) for each of the apprenticeship years. Students can expect to attend school for approximately 6 - 10 weeks per year of apprenticeship.

- **On-the-Job Training**

Employers are to have certified ticketed journeypersons working in the same trade onsite for the apprentice to train under. These journeypersons will verify the training the apprentice receives in the workplace.

After each year of training the apprentice will write a test before he/she can proceed to the next level/year of training. At the end of the apprenticeship, once technical training and on-the-job training requirements have been completed, the apprentice will write the final trades qualification exam and will become certified as a journeyperson in the trade. Currently in approximately 45 of the trades in BC an apprentice can elect to write an inter-provincial trades test and become a certified journeyperson with a Red-Seal Certificate which is then transferable from province-to-province.

BC TRADES INFORMATION GRID

By the College of New Caledonia

The Trades Information Grid is a work in progress. In an effort to provide the most up-to-date information some areas have been left blank and will be filled in as the information comes available. **Please note that under the SSEAC approval for funding, Red Seal apprenticeships are preferred.**

AEROSPACE	Apprentice-ship	On-the-Job Training	In-Class Training	EDUCATION (recommended levels)	ESSENTIAL SKILLS PROFILE	RED SEAL	BC Certification
<u>Aircraft Maintenance Engineer</u>	4 years	7200 hours	not specified	Grade 12			BCCA
<u>Aircraft Painter</u>	2 years	3480 hours	120 hours	Grade 12 (minimum Grade 10)			BCCA
<u>Aircraft Structural Technician</u>	4 years	6720 hours	480 hours	Grade 12			BCCA/BCCQ
AUTOMOTIVE / VEHICLES	Apprentice-ship	On-the-Job Training	In-Class Training	EDUCATION (recommended levels)	ESSENTIAL SKILLS PROFILE	RED SEAL	BC Certification
<u>Automatic Transmission Service Technician</u>	3 years	5220 hours	180 hours	Grade 12 (minimum Grade 10)			BCCA
<u>Automotive Collision Repair Technician (RS)</u>	4 years	6750 hours	450 hours	Grade 12 (minimum Grade 10)		<u>Motor Vehicle Body Repairer (Metal & Paint)</u>	BCCA / BCCQ
<u>Automotive Electrical and Tune-up Service Technician</u>	3 years	5040 hours	360 hours	Grade 12 (minimum Grade 10)			BCCA
<u>Automotive Electrical Technician</u>	3 years	5520 hours	180 hours	Grade 12 (minimum Grade 10)			BCCA
<u>Automotive Glass Technician</u>	3 years	5280 hours	66 hours	Grade 12 (minimum Grade 10)			BCCQ
<u>Automotive Machinist</u>	4 years	6870 hours	330 hours	Grade 12 or equivalent			BCCA
<u>Automotive Radiator Manufacturer and Repairer</u>	3 years	5400 hours	not specified	Grade 12 (minimum Grade 10)			BCCA
<u>Automotive Refinishing Prep Technician</u>	1 year	1680 hours	120 hours	Grade 12 (minimum Grade 10)			BCCQ
<u>Automotive Upholsterer</u>	4 years	7200 hours	not specified	Grade 12 (minimum Grade 10)			BCCA
<u>Automotive Wheel Alignment and Brake Service Technician</u>	2 years	3420 hours	180 hours	Grade 12 (minimum Grade 10)			BCCA
<u>Automotive Wheel Alignment, Brake and Frame</u>	4 years	7020 hours	180 hours	Grade 12 (minimum Grade 10)			BCCA

<u>Straightening Service Technician</u>							
<u>Commercial Trailer Mechanic (RS)</u>	3 years	4950 hours	not available in BC	Grade 12 (minimum Grade 10)	<u>Truck Trailer Repairer</u>	<u>Transport Trailer Technician</u>	BCCA / BCCQ
<u>Commercial Transport Vehicle Mechanic (Truck and Transport Vehicle) (RS)</u>	4 years	5940 hours	780 hours	Grade 12 (minimum Grade 10)	<u>Truck and Transport Mechanics</u>	<u>Truck and Transport Mechanic</u>	BCCA / BCCQ
<u>Diesel Engine Mechanic</u>	4 years	6390 hours	330 hours	Grade 12 (minimum Grade 10)			BCCA
<u>Diesel Fuel Injection Mechanic</u>	4 years	6540 hours	180 hours	Grade 12 (minimum Grade 10)			BCCA
<u>Forklift Mechanic</u>	4 years	6480 hours	360 hours	Grade 12 (minimum Grade 10)			BCCA
<u>Heavy Duty Equipment Mechanic (RS)</u>	4 years	6480 hours	720 hours	Grade 12 (minimum Grade 10)		<u>Heavy Duty Equipment Mechanic</u>	BCCA / BCCQ
<u>Motorcycle Mechanic (RS)</u>	4 years	6100 hours	300 hours	Grade 12 (minimum Grade 10)		<u>Motorcycle Mechanic</u>	BCCA / BCCQ
<u>Outdoor Power Equipment Technician</u>	4 years	4560 hours	240 hours	Grade 12 (minimum Grade 10)			BCCA / BCCQ
<u>Recreational Vehicle Technician (RS)</u>	4 years	4640 hours	720 hours	Grade 12 (minimum Grade 10)	<u>Recreation Vehicle Service Technician</u>	<u>Recreation Vehicle Service Technician</u>	BCCA / BCCQ
<u>Standard Transmission Repairer</u>	3 years	5220 hours	180 hours	Grade 12 (minimum Grade 10)			BCCA
<u>Tire Repairer</u>	2 years	3600 hours	not available in BC	Grade 12 (minimum Grade 10)			BCCA
<u>Truck Body Builder</u>	4 years	7200 hours	not specified	Grade 12 (minimum Grade 10)			BCCA
CONSTRUCTION	Apprenticeship	On-the-Job Training	In-Class Training	EDUCATION (recommended levels)	ESSENTIAL SKILLS PROFILE	RED SEAL	BC Certification
<u>Architectural Sheet Metal Worker</u>	2years	3600 hours	360 hours	Grade 12 (minimum Grade 10)			BCCQ
<u>Carpenter (RS)</u>	4 years	5000 hours	720 hours	Grade 12 (minimum Grade 10)	<u>Carpenter</u>	<u>Carpenter</u>	BCCA / BCCQ
<u>Cement Mason (RS)</u>	3 years	3240 hours	360 hours	Grade 12 (minimum Grade 10)		<u>Concrete Finisher</u>	BCCA / BCCQ
<u>Drywall Finisher</u>	3 years	4500 hours	360 hours	Grade 12 (minimum Grade 10)			BCCA / BCCQ
<u>Floor Covering Installer(RS)</u>	3 years	5400 hours	450 hours	Grade 12 (minimum Grade 10)		<u>Floorcovering Installer</u>	
<u>Glazier (RS)</u>	4 years	6400 hours	540 hours	Grade 12 (minimum Grade 10)	<u>Glaziers</u>	<u>Glazier</u>	BCCA / BCCQ

<u>Hardwood Floor Layer</u>	3 years	5400 hours	150 hours	Grade 12 (minimum Grade 10)			BCCA
<u>Heat and Frost Insulator (RS)</u>	4 years	5920 hours	480 hours	Grade 12 (minimum Grade 10)	<u>Insulator (Heat & Frost)</u>	<u>Insulator (Heat & Frost)</u>	BCCA / BCCQ
<u>Joiner (RS)</u>	4 years	6480 hours	720 hours	Grade 12 (minimum Grade 10)	<u>Cabinet Maker</u>	<u>Cabinetmaker</u>	BCCA / BCCQ
<u>Lather (Interior Systems Mechanic) (RS)</u>	4 years	6000 hours	660 hours	Grade 12 (minimum Grade 10)	<u>Lather (Interior Systems Mechanic)</u>	<u>Lather (Interior Systems Mechanic)</u>	BCCA / BCCQ
<u>Log Builder</u>	4 years	7000 hours	600 hours	Grade 12 (minimum Grade 10)			BCCA / BCCQ
<u>Mason (RS)</u>	4 years	5000 hours	630 hours	Grade 12 (minimum Grade 10)	<u>Bricklayer</u>	<u>Bricklayer</u>	BCCA / BCCQ
<u>Painter and Decorator (RS)</u>	3 years	4950 hours	450 hours	Grade 12 (minimum Grade 10)	<u>Painter and Decorator</u>	<u>Painter and Decorator</u>	BCCA / BCCQ / IPE
<u>Piledriver and Bridgeworker</u>	3 years	3000 hours	600 hours	Grade 12 (minimum Grade 10)			BCCA / BCCQ
<u>Plasterer</u>	4 years	4800 hours	360 hours	Grade 12 (minimum Grade 10)			BCCA / BCCQ
<u>Residential Steep Roofer</u>	3 years	3600 hours	360 hours	Grade 12 (minimum is Grade 9)			BCCA / BCCQ
<u>Roofer, Damp and Waterproofing (RS)</u>	3 years	3600 hours	360 hours	Grade 12 (minimum is Grade 9)		<u>Roofer</u>	BCCA / BCCQ
<u>Tilesetter</u>	3 years	4500 hours	360 hours	Grade 12 (minimum Grade 10)			BCCA / BCCQ

COSMETOLOGY	Apprenticeship	On-the-Job Training	In-Class Training	EDUCATION (recommended levels)	ESSENTIAL SKILLS PROFILE	RED SEAL	BC Certification
<u>Barber</u>	2 years	4000 hours	not specified	Grade 12 (minimum Grade 10)			BCCA / BCCQ
<u>Cosmetologist (RS)</u>	2 years	3600 hours	not specified	Grade 12 (minimum Grade 10)		<u>Hairstylist</u>	BCCA / BCCQ

ELECTRICAL AND ELECTRONICS	Apprenticeship	On-the-Job Training	In-Class Training	EDUCATION (recommended levels)	ESSENTIAL SKILLS PROFILE	RED SEAL	BC Certification
<u>Appliance Service Technician (RS)</u>	3 years	5400 hours	not specified	Grade 12 (minimum Grade 10)		<u>Appliance Service Technician</u>	BCCQ
<u>Cable Splicer</u>	4 years	7200 hours	not specified	Grade 12 or equivalent			BCCA
<u>Community Antenna Television Technician</u>	4 years	6160 hours	240 hours	Grade 12			BCCA / BCCQ
<u>Electrician (RS)</u>	4 years	6000 hours	1200 hours	Grade 12 or equivalent	<u>Construction Electrician</u>	<u>Construction Electrician</u>	BCCA / BCCQ
<u>Electronics Communications</u>	3 years	4680 hours	not specified	Grade 12			BCCA / BCCQ

<u>Technician</u>							
<u>Electronics Technician</u>	4 years	7200 hours	not specified	Grade 12			BCCA
<u>Electronics Technician (Consumer Products) (RS)</u>	4 years	7200 hours	not specified	Grade 12		<u>Electronics Technician (Consumer Products)</u>	BCCA / BCCQ
<u>Industrial Instrumentation Mechanic (RS)</u>	5 years	7800 hours	1200 hours	Grade 12 or equivalent	<u>Industrial Instrument Mechanic</u>	<u>Industrial Instrument Mechanic</u>	BCCA / BCCQ
<u>Meter Technician</u>	3.5 years	6300 hours	all training is in-house at BC Hydro	Grade 12			BCCA
<u>Office Machine Repairer</u>	3.5 years	6300 hours	not specified	Grade 12 (minimum Grade 10)			BCCA
<u>Power Line Technician (RS)</u>	3.5 years	5120 hours	480 hours	Grade 12 or equivalent		<u>Powerline Technician</u>	BCCA / BCCQ
<u>Telecontrol Technologist</u>	5 years	9000 hours	all training is in-house at BC Hydro	Grade 12			BCCA
<u>Utility Arborist</u>	2 years	2378 hours	222 hours	Grade 10 or equivalent			BCCA / BCCQ
<u>Winder Electrician (RS)</u>	4 years	6000 hours	1200 hours	Grade 12	<u>Industrial Electrician</u>	<u>Industrial Electrician</u>	BCCA / BCCQ
GRAPHIC ARTS	Apprentice-ship	On-the-Job Training	In-Class Training	EDUCATION (recommended levels)	ESSENTIAL SKILLS PROFILE	RED SEAL	BC Certification
<u>Graphic Arts - Artist (Mechanical and Creative)</u>	5 years	9000 hours	not specified	Grade 12 or equivalent			BCCA
<u>Graphic Arts - Bookbinder 1</u>	4 years	7200 hours	not specified	Grade 12			BCCA
<u>Graphic Arts - Bookbinder 2</u>	4 years	7200 hours	not specified	Grade 12			BCCA
<u>Graphic Arts - Compositor</u>	4 years	6000 hours	not specified	Grade 12			BCCA
<u>Graphic Arts - Electronic Pre-Press Operator</u>	4 years	6000 hours	not specified	Grade 12 or equivalent			BCCA
<u>Graphic Arts - Electronic Pre-Press Operator (Advanced)</u>	2 years	3000 hours	not specified	Grade 12			BCCA
<u>Graphic Arts - Lithographic Press Feeder</u>	2 years	3000 hours	not specified	Grade 12			BCCA
<u>Graphic Arts - Lithographic Press Operator</u>	4 years	7200 hours	not specified	Grade 12			BCCA
<u>Graphic Arts - Lithographic Pressperson</u>	4 years	7200 hours	not specified	Grade 12			BCCA
<u>Graphic Arts - Platemaker</u>	5 years	9000 hours	not specified	Grade 12			BCCA
<u>Graphic Arts - Printer</u>	5 years	9000 hours	not specified	Grade 12			BCCA

<u>Graphic Arts - Stripper and Assembler</u>	5 years	9000 hours	not specified	Grade 12			BCCA
HORTICULTURE	Apprentice-ship	On-the-Job Training	In-Class Training	EDUCATION (recommended levels)	ESSENTIAL SKILLS PROFILE	RED SEAL	BC Certification
<u>Aboriculturist</u>	4 years	6480 hours	720 hours	Grade 12 (minimum Grade 10)			BCCA
<u>Landscape Horticulturist</u>	4 years	6480 hours	720 hours	Grade 12 (minimum Grade 10)			BCCA / BCCQ
<u>Production Horticulturist</u>	4 years	6480 hours	720 hours	Grade 12 (minimum Grade 10)			BCCA / BCCQ
HOSPITALITY	Apprentice-ship	On-the-Job Training	In-Class Training	EDUCATION (recommended levels)	ESSENTIAL SKILLS PROFILE	RED SEAL	BC Certification
<u>Baker (RS)</u>	3 years	5400 hours	360 hours	Grade 12 (minimum Grade 10)		<u>Baker</u>	BCCA / BCCQ
<u>Cook (RS)</u>	3 years	5400 hours	360 hours	Grade 12 (minimum Grade 10)	<u>Cook</u>	<u>Cook</u>	BCCA / BCCQ
<u>Meatcutter</u>	3 years	4500 hours	360 hours	Grade 12 (minimum Grade 10)			BCCA / BCCQ
OPERATOR	Apprentice-ship	On-the-Job Training	In-Class Training	EDUCATION (recommended levels)	ESSENTIAL SKILLS PROFILE	RED SEAL	BC Certification
<u>Aggregate Plant Operator</u>	3 years	4500 hours	All training is with <u>Operating Engineers Local 115</u>	Grade 12 (minimum Grade 10)			BCCQ
<u>Area Dispatcher</u>	3.5 years	6300 hours	not specified	Grade 12 (minimum Grade 10)			BCCA
<u>Asphalt Plant Operator</u>	3 years	4500 hours	All training is with <u>Operating Engineers Local 115</u>	Grade 12 (minimum Grade 10)			BCCQ
<u>Boom Truck Operator Class A</u> Under development	3 years	3000 hours	All training is with <u>Operating Engineers Local 115</u>	Completion of High School Career Prep in Mechanical Trades or ELTT Programme			BCCA (pending) / BCCQ
<u>Boom Truck Operator Class B</u> Under development	2 years	2000 hours	All training is with <u>Operating Engineers Local 115</u>	Completion of High School Career Prep in Mechanical Trades or ELTT Programme			BCCA (pending) / BCCQ
<u>Concrete Plant Operator</u>	3 years	4500 hours	All training is with <u>Operating Engineers Local 115</u>	Grade 12 (minimum Grade 10)			BCCQ
<u>Hydraulic Crane Operator</u>	3 years	4500 hours	All training is with <u>Operating Engineers</u>	Grade 12 (minimum Grade 10)			BCCQ

			<u>Local 115</u>				
<u>Mobile Crane Operator (Construction Industry) (RS)</u>	3 years	4020 hours	480 hours	Grade 12 (minimum Grade 10)		<u>Mobile Crane Operator</u>	BCCA / BCCQ
<u>Tower Crane Operation</u>	2 years	3000 hours	All training is with <u>Operating Engineers Local 115</u>	Grade 12 (minimum Grade 10)			BCCQ
LUMBER MANUFACTURING INDUSTRY (LMI) SAW	Apprentice-ship	On-the-Job Training	In-Class Training	EDUCATION (recommended levels)	ESSENTIAL SKILLS PROFILE	RED SEAL	BC Certification
<u>Benchperson</u>	1 year	1680 hours	120 hours	Grade 10 or equivalent			BCCA / BCCQ
<u>Circular Sawfiler</u>	1 year	1680 hours	120 hours	Grade 10 or equivalent			BCCQ / BCCQ
<u>Planermill Maintenance Technician 1</u>	1 year	1620 hours	180 hours	Grade 10 or equivalent			BCCA / BCCQ
<u>Planermill Maintenance Technician 2</u>	2 years	3210 hours	390 hours	Grade 10 or equivalent			BCCA / BCCQ
<u>Sawfitter</u>	2 years	3360 hours	240 hours	Grade 10 or equivalent			BCCA / BCCQ
MARINE	Apprentice-ship	On-the-Job Training	In-Class Training	EDUCATION (recommended levels)	ESSENTIAL SKILLS PROFILE	RED SEAL	BC Certification
<u>Inboard / Outboard Mechanic</u>	4 years	6720 hours	480 hours	Grade 12 (minimum Grade 10)			BCCA / BCCQ
<u>Marine Engine Mechanic</u>	4 years	6360 hours	360 hours	Grade 12 (minimum Grade 10)			BCCA
<u>Marine Engineer</u>	4 years	5760 hours	1440 hours	Grade 12 and a Diesel Engine Entry Level Training Program			BCCA
<u>Marine Repair Technician</u>	4 years	8000 hours	600 hours	Grade 12			BCCA / BCCQ
<u>Shipfitter</u>	4 years	5800 hours	600 hours	Grade 12 (minimum Grade 10)			BCCA / BCCQ
<u>Shipwright</u>	4 years	6100 hours	not specified	Grade 12 (minimum Grade 10)			BCCA / BCCQ
MECHANICAL / REPAIR	Apprentice-ship	On-the-Job Training	In-Class Training	EDUCATION (recommended levels)	ESSENTIAL SKILLS PROFILE	RED SEAL	BC Certification
<u>Air Compressor and Pneumatic Tool Mechanic</u>	4 years	7200 hours	not specified	Grade 12 (minimum Grade 10)			BCCA
<u>Elevator Mechanic</u>	4 years	7200 hours	not specified	Grade 12 (minimum Grade 10)			BCCA / BCCQ
<u>Agricultural Equipment Technician</u>	4 years	5860 hours	540 hours	Grade 12 (minimum Grade 10)	<u>Farm Equipment Mechanic</u>	<u>Agricultural Equipment Technician</u>	BCCA / BCCQ
<u>Hydraulic Service</u>	5 years	9000	not specified	Grade 12			BCCA

<u>Mechanic</u>		hours		(minimum Grade 10)			
<u>Millwright (RS)</u>	4 years	6360 hours	840 hours	Grade 12 (minimum Grade 10)		<u>Industrial Mechanic (Millwright)</u>	BCCA / BCCQ
<u>Railcar Mechanic</u>	4 years	7200 hours	not specified	Grade 12 (minimum Grade 10)			BCCA
<u>Transport Refrigerator Mechanic</u>	3 years	4680 hours	720 hours	Grade 12 (minimum Grade 10)			BCCA / BCCQ
METAL	Apprentice-ship	On-the-Job Training	In-Class Training	EDUCATION (recommended levels)	ESSENTIAL SKILLS PROFILE	RED SEAL	BC Certification
<u>Construction Boilermaker (RS)</u>	3 years	5700 hours	300 hours (including 6 months in an ELTT program)	Grade 12 (minimum Grade 10)	<u>Boilermaker</u>	<u>Boilermaker</u>	BCCA / BCCQ
<u>Diesel Engineer Machinist</u>	4 years	6930 hours	330 hours	Grade 12 (minimum Grade 10)			BCCA
<u>Electro-Plater</u>	4 years	7200 hours	not applicable	Grade 12 (minimum Grade 10)			BCCA
<u>Ironworker (RS)</u>	3 years	4260 hours	240 hours (plus 6 months in an ELTT program prior to apprenticeship)	Grade 12 (minimum Grade 10)		<u>Ironworker (Generalist)</u>	BCCA / BCCQ
<u>Machine Fitter</u>	4 years	6600 hours	not specified	Grade 12			BCCA
<u>Machinist (RS)</u>	4 years	6600 hours	600 hours	Grade 12 or equivalent		<u>Machinist</u>	BCCA / BCCQ
<u>Machinist (Mould Shop)</u>	4 years	6600 hours	not specified	Grade 12			BCCA
<u>Metal Fabricator (RS)</u>	4 years	6400 hours	600 hours	Grade 12 (minimum Grade 10)	<u>Metal Fabricator (Fitter)</u>	<u>Metal Fabricator (Fitter)</u>	BCCA / BCCQ
<u>Mould Maker</u>	4 years	6600 hours	not specified	Grade 12 (minimum Grade 10)			BCCA
<u>Moulder and Coremaker</u>	4 years	7200 hours	not specified	Grade 12 (minimum Grade 10)			BCCA
<u>Patternmaker</u>	5 years	9000 hours	not specified	Grade 12 (minimum Grade 10)			BCCA
<u>Sheet Metal Worker (RS)</u>	4 years	6400 hours	720 hours	Grade 12		<u>Sheet Metal Worker</u>	BCCA / BCCQ
<u>Sheet Metal Worker (Manufacturing)</u>	2 years	2480 hours	360 hours	Grade 12			BCCA
<u>Springmaker</u>	4 years	7200 hours	not specified	Grade 12 (minimum Grade 10)			BCCA
<u>Tool and Die Maker</u>	5 years	8400 hours	600 hours	Grade 12 or equivalent			BCCA
<u>Welder Level 'A' (RS)</u>	3 years	4680 hours	720 hours	Grade 12 (minimum Grade 10)		<u>Welder</u>	
<u>Welder Level 'B' (RS)</u>	2 years	3600 hours	not specified	Grade 12 (minimum Grade 10)		<u>Welder</u>	

<u>Welder Level 'C'</u>	1 year	1800 hours	not specified	Grade 12 (minimum Grade 10)			
MOTION PICTURE AND THEATRE	Apprentice-ship	On-the-Job Training	In-Class Training	EDUCATION (recommended levels)	ESSENTIAL SKILLS PROFILE	RED SEAL	BC Certification
<u>Motion Picture and Theatre - 1st Assistant Make-up Artist</u>	not an apprenticeable trade	n/a	n/a	Grade 12 (minimum Grade 10)			not available
<u>Motion Picture and Theatre - 2nd Assistant Picture Editor</u>	not an apprenticeable trade	n/a	n/a	Grade 12 (minimum Grade 10)			not available
<u>Motion Picture and Theatre - 3rd Assistant Director</u>	2 years	3450 hours	150 hours	Grade 12 (minimum Grade 10)			BCCA / BCCQ
<u>Motion Picture and Theatre - Assistant Location Manager</u>	2 years	3450 hours	150 hours	Grade 12 (minimum Grade 10)			BCCA / BCCQ
<u>Motion Picture and Theatre - Costumer</u>	not an apprenticeable trade	n/a	n/a	Grade 12 (minimum Grade 10)			not available
<u>Motion Picture and Theatre - Grip</u>	2 years	1800 hours	1200 hours	Grade 12 (minimum Grade 10)			BCCA
<u>Motion Picture and Theatre - Lighting Technician</u>	not an apprenticeable trade	n/a	n/a	Grade 12 (minimum Grade 10)			not available
<u>Motion Picture and Theatre - Rigger</u>	not an apprenticeable trade	n/a	n/a	Grade 12 (minimum Grade 10)			not available
<u>Motion Picture and Theatre - Script Supervisor</u>	2 years	3240 hours	360 hours	Grade 12 (minimum Grade 10)			BCCA
<u>Motion Picture and Theatre - Set Dresser</u>	2 years	2400 hours	240 hours	Grade 12 (minimum Grade 10)			BCCA
PARTS / WAREHOUSING	Apprentice-ship	On-the-Job Training	In-Class Training	EDUCATION (recommended levels)	ESSENTIAL SKILLS PROFILE	RED SEAL	BC Certification
<u>Automotive Partsperson (RS)</u>	3 years	5040 hours	360 hours	Grade 12 (minimum Grade 10)		<u>Partsperson</u>	BCCA / BCCQ
<u>Industrial Engine and Equipment Partsperson</u>	3 years	5040 hours	360 hours	Grade 12 (minimum Grade 10)			BCCA / BCCQ
PIPING	Apprentice-ship	On-the-Job Training	In-Class Training	EDUCATION (recommended levels)	ESSENTIAL SKILLS PROFILE	RED SEAL	BC Certification
<u>Domestic / Commerical Gasfitter</u>	2 years	3360 hours	240 hours	Grade 12 or equivalent			BCCA
<u>Oil Burner Mechanic (Residential)</u>	4 years	6400 hours	not specified	Grade 12 (minimum Grade 10)			BCCA / BCCQ
<u>Plumber (RS)</u>	4 years	5620 hours	780 hours	Grade 12		<u>Plumber</u>	BCCA / BCCQ
<u>Refrigeration</u>	5 years	7280	840 hours	Grade 12		<u>Refrigeration and</u>	BCCA / BCCQ

<u>Mechanic (RS)</u>		hours				<u>Aire Conditioning Mechanic</u>	
<u>Sprinkler System Installer (RS)</u>	4 years	6480 hours	720 hours	Grade 12	<u>Sprinkler System Installer</u>	<u>Sprinkler System Installer</u>	BCCA / BCCQ
<u>Steamfitter and Pipefitter (RS)</u>	4 years	5620 hours	780 hours	Grade 12 (minimum Grade 10)		<u>Steamfitter/Pipefitter</u>	BCCA / BCCQ
SECURITY SERVICES	Apprentice-ship	On-the-Job Training	In-Class Training	EDUCATION (recommended levels)	ESSENTIAL SKILLS PROFILE	RED SEAL	BC Certification
<u>Locksmith</u>	2 years	3600 hours	not specified	Grade 12 (minimum Grade 10)			BCCA / BCCQ
<u>Security Alarm Installer</u>	2 years	3600 hours	not specified	Grade 12 (minimum Grade 10)			BCCA / BCCQ
OTHER	Apprentice-ship	On-the-Job Training	In-Class Training	EDUCATION (recommended levels)	ESSENTIAL SKILLS PROFILE	RED SEAL	BC Certification
<u>Antique Furniture Restorer and Finisher</u>	4 years	7200 hours	not specified	Grade 12 (minimum Grade 10)			BCCA
<u>Dressmaker and Dress Designer</u>	2 years	3500 hours	not specified	Grade 12 (minimum Grade 10)			BCCA
<u>Embalmer and Funeral Director</u>	2 years	3360 hours	240 hours	Grade 12 (minimum Grade 10)			BCCA / BCCQ
<u>Florist</u>	2 years	3600 hours	not specified	Grade 12 (minimum Grade 10)			BCCA
<u>Industrial Warehouseperson</u>	3 years	5040 hours	360 hours	Grade 12 (minimum Grade 10)			BCCA / BCCQ
<u>Jeweller and Goldsmith</u>	4 years	7200 hours	not specified	Grade 12 (minimum Grade 10)			BCCA
<u>Master Glass Blower</u>	4 years	7200 hours	not specified	Grade 12 (minimum Grade 10)			BCCA
<u>Sign Painter</u>	4 years	7200 hours	not specified	Grade 12 (minimum Grade 10)			BCCA
<u>Upholsterer</u>	4 years	7200 hours	not specified	Grade 12 (minimum Grade 10)			BCCA
<u>Water Well Driller</u>	2 years	3240 hours	360 hours	Grade 12 (minimum Grade 10)			BCCA / BCCQ