

GUIDE TO THE

# Skilled Trades

AND APPRENTICESHIP PATHWAY



## OYAP

ONTARIO YOUTH  
APPRENTICESHIP PROGRAM

Ontario 

This Employment Ontario program  
is funded by the Government of Ontario.

# Acknowledgement

This publication began as an on-line resource and for this we acknowledge Sandy Smiles of Whitby, Ontario who at the time of the original launch of the meticulously compiled information was the project officer of [www.tradeability.ca](http://www.tradeability.ca); and Rick Lea who held the position of executive director of the Durham Regional Local Training Board, both of whom showed much support and generosity in sharing this valuable apprenticeship electronic resource for the purpose of having a printed form.

The formation of the physical book was the labour of Simcoe Muskoka's local training board. Gratitude is owed to Susan Laycock who, during her years as executive director, continually brought her promising ideas to fruition. The hard copy version she initiated in 2010 was a response to requests by Simcoe County and Muskoka teachers promoting the apprenticeship pathway.

The version you hold in your hands represents a continued partnership between educators and the now newly named Simcoe Muskoka Skillforce. On the educator side of the partnership, a thank you goes out to Elaine McLachlin, and to Christa Ray and Lise Paulin of the OYAP Coordinators' Provincial Affiliation (OCPA) who saw the Guide to the Skilled Trades and Apprenticeship Pathway technical updates and edits through to completion, recognizing that many learners process information best when it is presented in a visual way. Our funder of this province-wide resource is the Government of Ontario.



## Foundational Assessment for Skilled Trades (FAST)

**FAST (FOUNDATIONAL ASSESSMENT FOR SKILLED TRADES: FORMERLY KNOWN AS EVALUATING ACADEMIC READINESS FOR APPRENTICESHIP TRAINING OR EARAT).**

EARAT was first developed to assist students who wish to pursue apprenticeship training in skilled trades. Each assessment is designed to highlight areas of study where the student may want to strengthen their knowledge and understanding before entering apprenticeship training. Most trades within FAST have assessments in three categories: communications, concepts of science and math. These assessments, taken with the assistance of school guidance staff or employment counsellors, are intended to increase the success rate for those entering apprenticeship. We have taken the original paper-based content and created an online platform for instructors and students to access. Students can register and take a variety of assessments and see their results immediately. Instructors can follow their registered students, track their results, and offer additional assistance when needed.

**TEACHERS OR INDIVIDUALS CAN REGISTER FOR FAST AT: [readyfortrades.ca](http://readyfortrades.ca)**

*Users outside of Simcoe County and Muskoka District can register and will be granted a week's trial use. Once the week is over there is a fee of \$500 for a two-year term.*

## Soft Skills Solutions (SSS)

Soft Skills Solutions® (SSS) was created with employers in mind! Simcoe Muskoka Skillforce conducted studies, researched extensively, and listened to employers' suggestions.

*"Employability skills (soft skills) are a critical element informing hiring decisions and retention."*

As a result, Simcoe Muskoka Skillforce developed Soft Skills Solutions® which has been rolled out across the country and covers such topics as:

- Personal Management
- Communication
- Collaboration
- Problem Solving
- Success on the Job

For more information on Soft Skills Solutions®, please visit: <https://smskillforce.ca/training/soft-skills-solutions/>

## Is This Book for You?

### YES, IF YOU ARE STILL IN HIGH SCHOOL

There are many opportunities for high school students like you to prepare for a career in the skilled trades. High school courses and experiential learning programs complement one another to help prepare you for a **skilled** workforce. Grade 11 and Grade 12 courses in **English, math, science and technological education** are designed to equip you with the knowledge and skills you need to meet the expectation of employers if you plan to enter the workforce directly after graduation, or the requirements for admission to certain apprenticeship or other training programs.

Trades-related **Specialist High Skills Major** (SHSM) programs are open to students in Grades 11 and 12 at participating high schools. SHSM programs combine in-school learning courses like technological education, math, English and science with experiential learning through field trips, safety training, and other resume building opportunities that allow students to graduate with a resume as well as a diploma.

**Cooperative education** courses allow students to earn secondary school credits while completing a work placement in the community. Through the mentorship of employers, you will develop the essential skills and work habits required in today's workplace. While at your co-op placement, if you demonstrate motivation, interest and skill, you could be registered as an apprentice as early as Grade 11, with co-op hours counting towards certification in your chosen trade.

Taking co-op is the quickest, least expensive yet thorough way of attaining a career in the trades. The **Ontario Youth Apprenticeship Program** (OYAP) is a specialized program that partners with cooperative education and enables you to earn credits towards the Ontario Secondary School Diploma (OSSD) by taking a cooperative education course for which the community component is in an apprenticeship trade.

Speak with a guidance counsellor or co-op teacher about your interests; these courses and opportunities can best prepare you throughout your high school journey for a career in the skilled trades.



### YES, IF YOU ARE OUT OF SCHOOL

<p><b>If you are 18 years of age and older and have completed Grade 12, or you have at least the minimum academic entry level for the trade (see Appendix B) which could be Grade 10 or 12</b></p>	<p>You can be registered as an apprentice. Your employer may request academic upgrading with Adult Continuing Education through a school board or at a college. Each employer can set their own standards or advise you which courses are valuable to commence your apprenticeship (see suggestions in Appendix C)</p>
<p><b>If you are 18 years of age and older and haven't completed your Grade 12, or don't have at least the minimum academic entry level for the trade (see Appendix B) which could be Grade 10 or 12</b></p>	<p>You can continue, with the principal's permission, in your current high school if you're younger than 21, or you can take academic upgrading courses through Adult Continuing Education with a school board or at a college. Ask MLITSD staff (see Appendix A) what acceptable Grade 12 equivalencies are. In any case, try to fit a high school co-op onto your timetable to gain experience and make connections for an apprenticeship, and especially because you can be registered as an apprentice while in high school co-op – OYAP HAS NO UPPER AGE LIMIT</p>
<p><b>If you are 16 years of age or older and have come to Ontario from another province or country</b></p>	<p>Ask MLITSD staff (see Appendix A) what acceptable Grade 12 equivalencies are, or how to prove Grade 10 equivalent, or even postsecondary equivalencies for the purpose of registering as an apprentice in Ontario.</p>

\*Cooperative education courses are the quickest, least expensive yet thorough way of attaining a career in the trades.

\*\*See Appendix B for a handy list of academic entry grade levels required for each trade

## Disclaimer:

This resource book is based on data collected August 14, 2023 and has been drawn from sources believed to be reliable; however, the accuracy or completeness is not guaranteed. Please note that apprenticeship program costs, grants, TDAs, durations, structure and related policies, procedures, guidelines, directives and legislation are subject to change. The Simcoe Muskoka Skillforce and OCPA do not assume any responsibility or liability in providing this data. Links to third-party websites are provided for your convenience and information only; if you access these websites, you do so at your own risk. Neither Simcoe Muskoka Skillforce nor OCPA are responsible for the content of those websites and will not be liable, directly or indirectly, for any damage or loss caused or alleged to be caused by or in connection with the use of your reliance on any such content. The fact that a website is linked to this resource does not imply any endorsement or sponsorship by us of that website or that we are affiliated in any way with the third party operating that third party website.

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## Trades Not Detailed in This Guidebook

Consider these active 51 apprenticeship trades for careers. Trade details are found at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca).

To complete an apprenticeship, these trades may require unique schooling arrangements between your employer and the MLTSD.

The 7 trades shown in **blue print** have apprenticeship entry prerequisites beyond high school credentials, as shown below.

### NOC CODE TRADE

<b>42201</b>	620B Aboriginal Child Development Practitioner
<b>85103</b>	240F Agricultural – Fruit Grower
<b>84120</b>	640S Agricultural – Swine Herdsperson
<b>72421</b>	445A Appliance Service Technician
<b>72410</b>	310K Automotive Electronic Accessory Technician
<b>72411</b>	274L Automotive Glass Technician
<b>72410</b>	615A Bearings Mechanic
<b>72999</b>	600P Blacksmith
<b>62200</b>	415C Chef (prerequisite 415A CofQ + 1 year)
<b>22302</b>	670C Computer Numerical Control (CNC) Programmer (prerequisite 429A CofQ)
<b>72101</b>	670D Die Designer (prerequisite 430A CofQ)
<b>22212</b>	614A Draftsperson – Mechanical
<b>22212</b>	614B Draftsperson – Plastic Mould Design
<b>22212</b>	614C Draftsperson – Tool and Die Design
<b>72422</b>	446A Electric Motor System Technician
<b>72422</b>	289F Electrician (Signal Maintenance)
<b>22311</b>	416E Electronic Service Technician
<b>92100</b>	255B Facilities Technician
<b>62202</b>	606G Gemsetter/Goldsmith
<b>95105</b>	219D Horse Harness Maker
<b>72401</b>	277Z Hydraulic/Pneumatic Mechanic
<b>64409</b>	634E Information Technology - Contact Centre Customer Service Agent
<b>64409</b>	634D Information Technology – Contact Centre Sales Agent
<b>22221</b>	634A Information Technology – Contact Centre Technical Support Agent
<b>72105</b>	620B Ironworker – Generalist
<b>72203</b>	207S Light Rail Overhead Contact Systems Linesperson
<b>72999</b>	259L Locksmith

<b>94201</b>	630A Micro Electronics Manufacturer
<b>72100</b>	410K Motive Power Machinist
<b>22301</b>	670E Mould Designer (prerequisite 431A CofQ)
<b>22301</b>	277M Mould or Die Finisher
<b>53124</b>	296B Native Clothing and Crafts Artisan
<b>72400</b>	609C Packaging Machine Mechanic
<b>72106</b>	456P Pressure Systems Welder
<b>92100</b>	246R Process Operator – Power
<b>93101</b>	246F Process Operator – Refinery, Chemical and Liquid Processes
<b>94129</b>	246W Process Operator – Wood Products
<b>72999</b>	690H Recreational Vehicle Technician
<b>72320</b>	401R Refractory Mason (prerequisite 401A CofQ)
<b>72202</b>	288R Relay and Instrumentation Technician
<b>72320</b>	244H Restoration Mason
<b>95105</b>	219C Saddlery
<b>12103</b>	297B Special Events Coordinator
<b>73402</b>	278B Surface Blaster
<b>94201</b>	630B Surface Mount Assembler
<b>94106</b>	602C Tool and Cutter Grinder
<b>72100</b>	239B Tool and Gauge Inspector (prerequisite 430A CofQ)
<b>73300</b>	638A Tractor-Trailer Commercial Driver
<b>72410</b>	310D Transmission Technician
<b>72429</b>	421C Turf Equipment Technician
<b>72501</b>	605B Water Well Driller

### NOTES

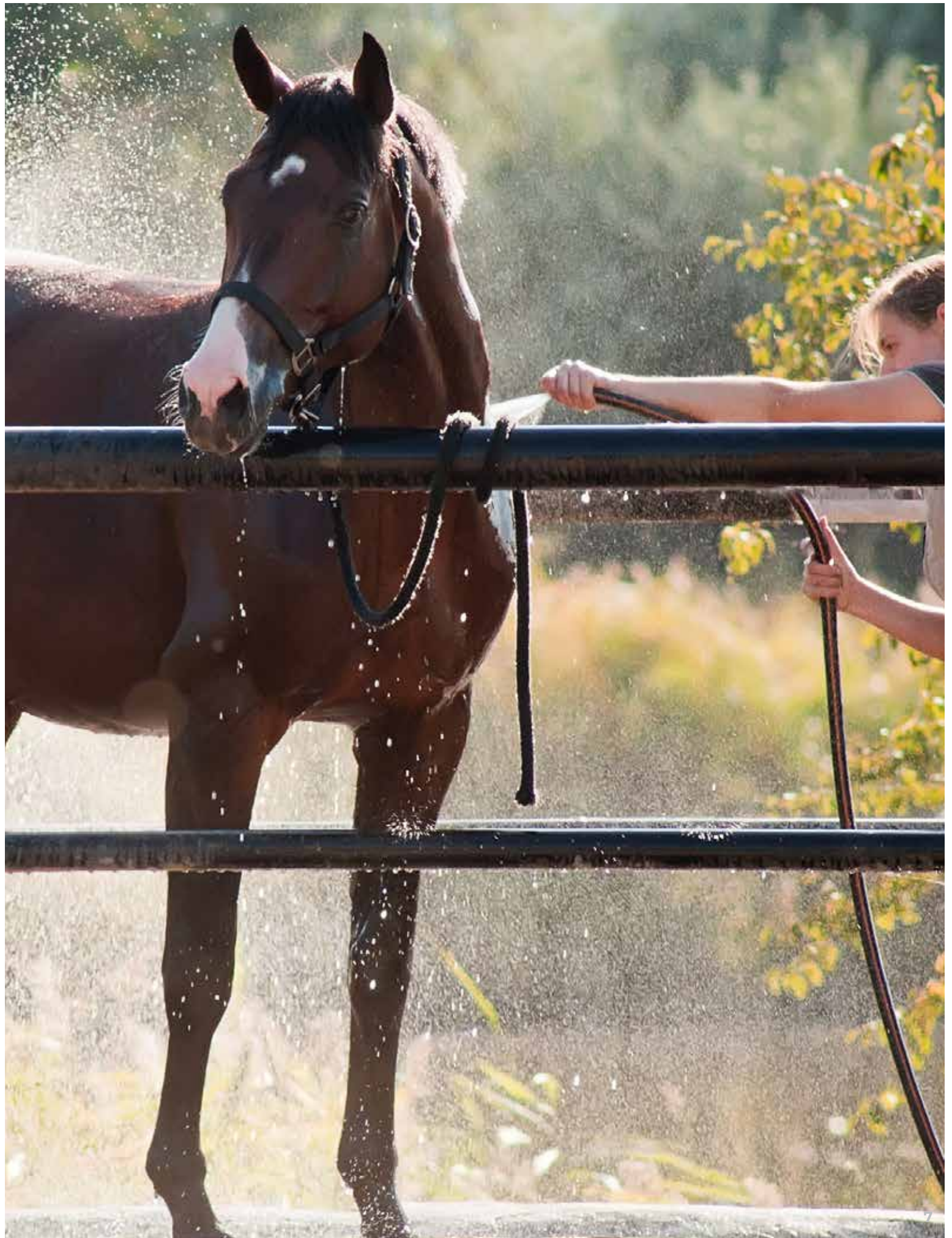
72410 - 310C Fuel and Electrical Systems Technician is no longer taking new apprenticeship registrations.

72200 - 100S Solar Photovoltaic Installation is not an active trade. Schooling can be investigated at Mohawk College.

### About the NOC

The National Occupational Classification (**NOC**) is Canada's national system for describing occupations. The **NOC** system, maintained by the Government of Canada, provides a standardized language for describing the work performed by Canadians and serves as a framework to define labour market information. This guide uses the **NOC** 2021 Version 1.0 which was current at the moment of printing. For career decisions such as immigration applications, you must refer to [www.canada.ca](http://www.canada.ca).





## Glossary

### Apprentice

An apprentice is a learner in a workplace with a signed registered training agreement (RTA).

### BOSTA

Building Ontario Skilled Trades Act

### Compulsory

A compulsory trade is a trade in which registration as an OYAP participant, apprentice, journeyperson candidate or certification as a journeyperson is mandatory.

### Certificate of Qualification (C of Q)

A certificate of qualification confirms its holder has the skills, knowledge and experience that meet industry standards of practice for the trade.

### Employment Ontario

Employment Ontario is a portion of the provincial government dedicated to helping job seekers, workers and employers with advice, grants and other services around public and private sector employment. See [www.ontario.ca/page/employment-ontario](http://www.ontario.ca/page/employment-ontario) and select FIND A JOB or FIND, HIRE AND TRAIN WORKERS.

### MLITSD

Ministry of Labour, Immigration, Training and Skills Development

The mandate of the MLITSD is helping to protect workers and settle workplace disputes, supporting skilled trades, apprenticeships and employment services, attracting highly-skilled newcomers and helping people getting settled in Ontario.

### NOC

National Occupational Classification.

The **NOC** is Canada's national system for describing occupations.

NOTE: A **NOC** Code may include a number of different occupation names.

### Non-Compulsory Trade

Individuals practicing non-compulsory trades do not need a Registered Training Agreement, Provisional Certificate of Qualification or Certificate of Qualification to practice legally in Ontario and do not appear in the Skilled Trades Ontario Public Register. Under the provincial and Territorial Apprenticeship Acts; a Red Seal endorsement promotes excellence to employers, instills pride in skilled workers, and facilitates labour mobility.

### OYAP

Ontario Youth Apprenticeship Program

OYAP is a specialized program in high school that allows you to explore apprenticeships and consider careers in the skilled trades, generally starting in Grade 11 or 12 through the cooperative education program.

### OYAP Participant

A high school co-op student learning in an apprenticeship skilled trades placement and has Section 1 of the OYAP Participant Form completed.

### OYAP Registrant

A high school student with a Registered Training Agreement (RTA) and has Sections 1 and Section 2 of the OYAP Participant Form completed.



### Red Seal

Interprovincial Red Seal trades are designated trades that are governed by regulations under the Provincial and Territorial Apprenticeship Acts.

### RTA (Registered Training Agreement)

An RTA means an agreement between an apprentice and a sponsor that is registered with MLITSD under which the apprentice is provided with training required under an apprenticeship program in a trade.

### STO

Skilled Trades Ontario

The government has established Skilled Trades Ontario as a Crown agency to replace the Ontario College of Trades in order to simplify and transform the skilled trades and apprenticeship system in Ontario.

### TDA

Training Delivery Agent

A TDA is a postsecondary school or approved training facility teaching the provincial curriculum for apprenticeship trades as approved by the MLITSD.

### TEA

Trade Equivalency Assessment

A TEA allows experienced workers who have not completed an apprenticeship in Ontario but who believe they have equivalent skills and experience to apply to be considered for writing a Certificate of Qualification examination based on providing sufficient and verifiable evidence of competency and experience in the trade. This assessment is available for all trades that cumulate in a Certificate of Qualification examination, whether an Ontario trade or Red Seal trade.

[www.skilledtradesontario.ca/experienced-workers/trade-equivalency-assessment/](http://www.skilledtradesontario.ca/experienced-workers/trade-equivalency-assessment/)



## What You Need to Know

There is a lot to know about the skilled trades and the apprenticeship training program. As a career destination, most importantly, you need to know if a skilled trade is right for you. We encourage you to take the time to complete the required research to be sure the choice is most appropriate for you.

### Apprenticeship

An apprenticeship is a formal agreement between an apprentice (a person who wants to learn certain occupational skills) and an employer or union (who needs a skilled worker). Apprenticeship is learning by doing under the direction of an experienced tradesperson or journeyman. An employer or union can sponsor you as an apprentice. A sponsor should be someone qualified and able to oversee your apprenticeship training ensuring that you complete the competencies required to work in the trade.

The level of commitment and time required to complete an apprenticeship, about 2 to 5 years, can be the same as earning a college diploma or university degree. The entrance requirements are set by the MLITSD. While some skilled trades require Grade 10 completion as a minimum entry requirement, most employers require completion of Grade 12 or equivalent. A strong foundation in mathematics, sciences, and communications is important for most trades.

Apprenticeship includes formal in-school training sessions plus learning on the job. About 80 percent of your training is on the job and the remaining 20 percent is academic or theoretical training. In-school training takes place in an approved training facility or a postsecondary school which the MLITSD has designated a Training Delivery Agent. You may be enrolled in a day release program (in school one day a week) or in a block release program (in school for a few weeks in one continuous block of time annually). When you become a registered apprentice, the MLITSD will let you know your options and you often have a say as well in where you go to trade school as long as the school is an approved Training Delivery Agent.

The timing of when you start in-school training is determined by your registration date as an apprentice. This means that everyone in the class became a registered apprentice around the same time as you did. You can expect to work 10-18 months on the job before you are performing at a level where you are ready for in-school training. Your readiness for in-school training is determined by your employer which means when you receive your invitation by email to attend in-school training, check with your employer about being released from work for the purpose of attending in-school training. Paying the classroom fee to the Training Delivery Agent secures your seat for the in-school training. Your formal classroom training continues throughout your apprenticeship intermittently between your sessions of workplace learning until you have completed all prescribed levels of schooling.

Your apprenticeship costs include a classroom fee for academic or in-school training, which is set by the MLITSD

although Training Delivery Agents can change this amount to help cover their costs. The cost to you for the training block can be offset by Employment Insurance benefits. Depending on the trade, you may also be expected to provide your own tools. You may be eligible for the Tools Grant program after completion of Level 1 schooling. Tools tax deductions also exist to provide you with some financial assistance. Wages differ for each skilled trade and vary depending on demand. While high school co-op students are not required to be paid as they learn on the job, hours worked outside of high school workplace agreements must be paid. Because the hours worked need to be validated by the MLITSD, an employer cannot ask an apprentice to be a volunteer. An employer cannot demand to be paid for the training they give an apprentice as this is contrary to the signed agreement.

An employer should not put an apprentice into a sub-contractor arrangement as the apprentice may be required to produce, when applying for trade certification, a payroll record of hours worked under supervision. The payroll record helps to confirm there indeed has been an employer-employee relationship throughout the apprenticeship, an arrangement which also allows an apprentice to take full advantage of the Ontario apprenticeship program, such as filing a Record of Employment to collect Employment Insurance benefits, travel allowance and living away from home money, all while attending school. Because the hours worked need to be validated by the MLITSD, an employer should not expect an apprentice to be a volunteer but check with MLITSD staff for clarification ahead of time if there are instances where this may be allowed.

### Trade Sectors

There are 4 trade sectors:

**Construction** – skilled trades found in this sector build or install services in homes, schools, office buildings and institutions. Some examples include an architectural glass and metal mechanic, a sprinkler and fire protection installer, a steamfitter, and a terrazzo, tile and marble setter.

**Industrial** – trades in this sector involve product manufacturing and equipment maintenance. Some examples include a tool and die maker, an industrial millwright mechanic, a welder, and a cabinetmaker.

**Motive Power** – trades in this sector repair and service automobiles, transportation equipment and small engines. Some examples include an agricultural equipment technician, an auto body and collision damage repairer, a powered lift truck technician, and a small engine technician.

**Service** – trades in this diverse sector provide important services directly to the public. Some examples include an arborist, a hairstylist, a child development practitioner, and a cook.

# 5 Steps of the Apprenticeship Process

No matter what skilled trade you are interested in, the apprenticeship process is the same. Apprenticeship can be outlined in five major steps.

## Step 1 – Research

Choosing a trade begins by evaluating skills and interests and determining the trade that is most fulfilling. Take some time to discover your talents with personality and skill assessments. Choose a trade by what you like to do and where your interests lie, rather than trying to estimate where the economy and innovation will go. Remember to talk to employers, apprentices, and journeypersons in the trade you are researching. If you are a student in high school, the guidance counsellors, the cooperative education and technological education teachers in your school can help.

## Step 2 – Education (including Co-op for adults)

High school is an excellent time for you to start planning for an apprenticeship and, thanks to OYAP (which has no upper age limit but requires that the individual is working towards a Grade 12) and changes to Ontario legislation, high school is an ideal time to become a registered apprentice.

## Step 3 – Employment

To enter an apprenticeship, you must connect with an employer who is willing and able to sponsor you. High school co-op teachers can help find you a co-op placement if you are enrolled in the cooperative education program. Cooperative education credits are secondary school credits that you earn through a work placement and these hours can reduce the duration of your apprenticeship.

If you are no longer connected with a high school, searching for an apprenticeship job is like any other – it's time to start knocking on doors, making phone calls and sending out resumes. Employment Ontario career counsellors can help in arranging contacts, providing advice and tips on making it through the interview, and enhancing resumes to make individuals more attractive to potential employers. As an employed potential apprentice, you might expect to work 3-12 months in a trade before your employer registers you as an apprentice. During this time of working up to a registration, you can evaluate your own interest in the trade, while other tradespeople are gauging your suitability to work in that trade or that particular work environment.

There is no all-inclusive list of Ontario employers who hire apprentices because these are management decisions made within each company privately and based on changing circumstances.

## Step 4 – Registering

Once an employer agrees to sponsor you, a registration training agreement occurs with the MLITSD. For high school students, this is done through arrangements made with the co-op teacher. An apprenticeship registration is always a welcome celebration! After high school graduation, MLITSD will provide the apprentice with a training schedule and arrange for in-class training.

For individuals not connected with a high school, the employer and apprentice work directly with the provincial apprenticeship office, usually via email. MLITSD will provide the apprentice with a training schedule and arrange for in-class training.

## Step 5 – The Learning Process and Certification

Now as an apprentice, you are on the road to a prosperous career. Throughout the apprenticeship you will learn hands-on skills as well as technical skills at an appropriate postsecondary institution. The learning process continues until you have completed the requirements needed to receive journeyperson certification. Over 80% of learning is done on the job. Technical in-class training occurs during the apprenticeship. An on-the-job training standard log book is provided by Skilled Trades Ontario. Keeping up with the tasks in the book is a critical part of the success of an apprenticeship. Samples of the books are found by scrolling down to "Details" on the page [www.skilledtradesontario.ca/about-trades/trades-information/](http://www.skilledtradesontario.ca/about-trades/trades-information/)

Hours, skills and in-school training must be accomplished, and employer approval secured in writing in order to achieve a Certificate of Apprenticeship (CofA) and write the exam for a Certificate of Qualification (CofQ).

See Appendix D, So Now You Are an Apprentice – Best Practices for Registered Apprentices.





## Specific Information for Foreign Trained Tradespersons

Skilled trades people moving within Canada and persons considering immigration to Canada can find information about starting work in a regulated trade or profession, moving and working in a regulated occupation in another province or territory, and immigrating and working in a regulated trade or profession in Canada. For people considering immigrating to Canada as a federal skilled worker, this site includes guides, information and forms on the process. See [www.jobbank.gc.ca/home](http://www.jobbank.gc.ca/home).

Skilled Trades Ontario's Trade Equivalency Assessment is the first step towards obtaining a Certificate of Qualification for experienced workers who have not completed an Ontario apprenticeship but who have equivalent skills and experience. The Trade Equivalency Assessment lays out the standard to determine whether you will qualify or will not qualify to write the certifying exam for your trade. See [www.skilledtradesontario.ca/experienced-workers/trade-equivalency-assessment/](http://www.skilledtradesontario.ca/experienced-workers/trade-equivalency-assessment/)

### Some groups can face greater challenges entering the labour market:

- Youth
- Women
- Indigenous people
- Persons with disabilities
- Veterans of the Canadian Armed Forces
- Newcomers to Canada
- Immigrants to Canada
- Temporary foreign workers

Members of these groups can use these web-based tools and resources, which are designed to help them integrate into the Canadian workforce.

Go to [www.jobbank.gc.ca/home](http://www.jobbank.gc.ca/home) and scroll down the page for more information.

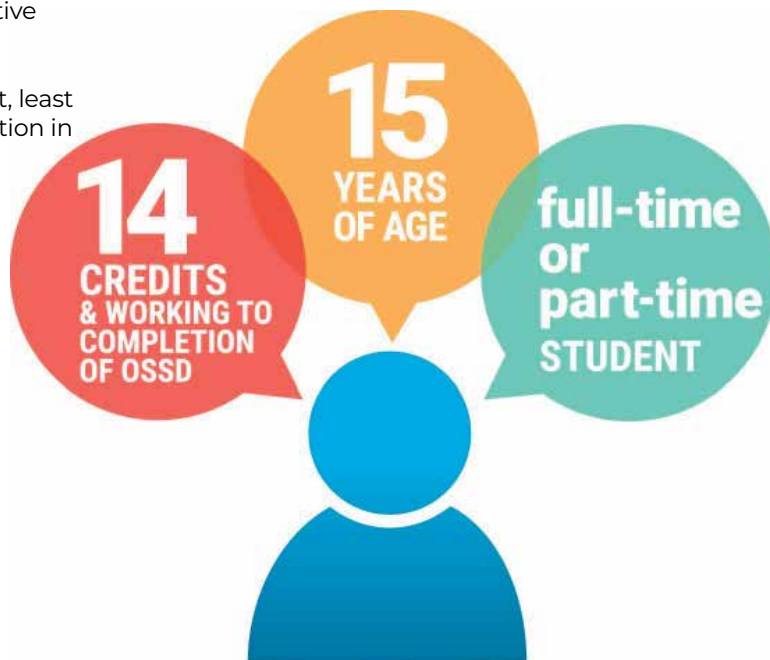


## Ontario Youth Apprenticeship Program (OYAP)

OYAP happens in co-op. OYAP is a specialized program that enables students to earn credits towards the Ontario Secondary School Diploma (OSSD) by taking cooperative education courses for which the community component is in an apprenticeship trade. To be eligible for OYAP, students must be 15 years of age or older, have completed 14 credits towards the OSSD, and be enrolled as a student in a secondary school or adult continuing education program.

Students, and their parents, (if a student is under 18 years of age), must also complete an OYAP Participant Application Form. Once that form is completed, students are considered "OYAP Participants." As an OYAP Participant, a student may have the opportunity to become an apprentice, with a Registered Training Agreement, while attending secondary school. In addition, a student may also have the opportunity to complete Level 1 in-school training offered by a Training Delivery Agent (TDA) approved by MLITSD. For more information on OYAP, please contact your local secondary school's guidance or cooperative education departments.

OYAP has no upper age limit and is the fastest, least expensive, thorough way of reaching certification in your chosen trade.



## OYAP ELIGIBILITY

**Must be working towards an OSSD**





# Apprenticeship Trades

# Agricultural – Dairy Herdsperson

**Number of Hours:** 5,520 hours  
**Number of School Sessions:** 2 x 8 weeks (480 hours)

**Trade Code:** 640D  
**NOC** 72600  
**Service Sector**

## Description

- Formulates a feeding program
- Maintains livestock/swine performance records
- Carries out a pasture or pen breeding program
- Performs breeding/gestation, farrowing and finishing procedures
- Recognizes and treats certain livestock/swine health problems
- Prepares and performs milking procedures
- Performs manure management procedures
- Operates and maintains barn mechanical and electrical systems
- Operates and maintains farm mechanical systems
- Performs general farm duties
- Demonstrates knowledge and application of requisite health and safety acts and regulations

## Personal Qualities

- You are able to work both inside and outside and are exposed to animals and farm odours
- You like working with animals
- You are in good physical condition and like working hard
- You have the stamina to be on your feet for long periods of time
- You are safety conscious

## Career Opportunities

- Herdspersons work for any establishment that produces milk for dairy products or raises pigs for pork products
- Some herdspersons work for family farms while others work for corporate farming entities

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Completion of a 5,520-hour apprenticeship program

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

University of Guelph – Ridgetown College

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

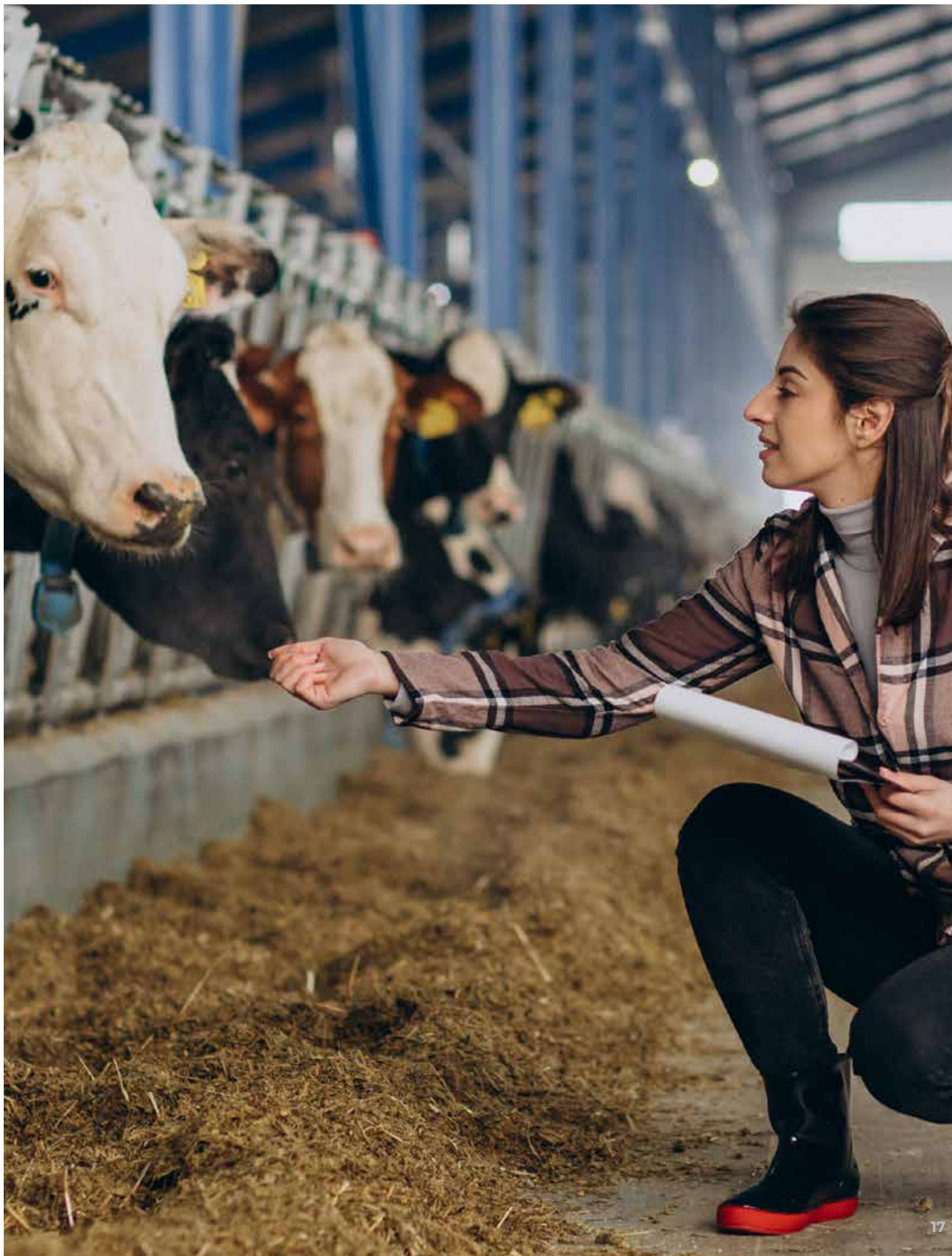
## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Cattle herdsperson
- Farm foreman/woman
- Farm supervisor
- Feedlot foreman/woman
- Ranch foreman/woman
- Farm foreman/woman
- Farm supervisor
- Feedlot foreman/woman
- Hog operation supervisor





# Agricultural Equipment Technician

**Number of Hours:** 6,280 hours

**Number of School Sessions:** 3 x 8 weeks (720 hours)

**Red Seal Trade**

**Trade Code:** 425A

**NOC** 72401

**Motive Power Sector**

## Description

- Tests systems and components using computerized diagnostic and other testing devices to diagnose and isolate faults
- Adjusts, repairs or replaces parts and components of farm equipment systems including fuel, brake, steering, suspension, engine, drive train, air supply and auxiliary systems, tires, wheels, ballasting, undercarriages, emission control and exhaust, cooling and climate control, and electrical and electronic systems using hand tools and other specialized repair equipment
- Inspects, diagnoses and repairs tillage and planting equipment, harvesting equipment, spraying and planting equipment, irrigation and distribution equipment, materials handling equipment, harvesting equipment, and precision farming equipment
- Tests and adjusts repaired systems to manufacturers performance specifications
- Performs scheduled maintenance service, such as oil changes, lubrications and tune-ups
- Advises customers on work performed, equipment condition and future repair requirements
- Inspects farm equipment motor in operation

## Personal Qualities

- You are able to work indoors and outdoors repairing equipment that may have an unpleasant smell
- You have the stamina to be on your feet for long periods of time and must bend down and reach up frequently
- You have and use physical strength on the job
- You make a very significant investment in tools
- You work with computers and computerized machinery

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

- Farm equipment technicians are employed at small and medium farm equipment repair and/or sales establishments such as dealerships or landscaping companies
- Some farm equipment technicians specialize in repairing one particular manufacturer's product line

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Completion of a 6,280-hour apprenticeship program is required

- If you have completed 7,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Fanshawe College  
Municipality of North Grenville – Kemptville

Level 1, known as Commercial Vehicle and Equipment Common Core, is common with 421A Heavy Duty Equipment Technician; 282E Powered Lift Truck Technician; 310T Truck and Coach Technician. For common core levels, check listings under the other trades for possibly more school choices.

Level 2 is common with 421A Heavy Duty Equipment Technician. For common core levels, check listings under the other trades for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journey person's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects [www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

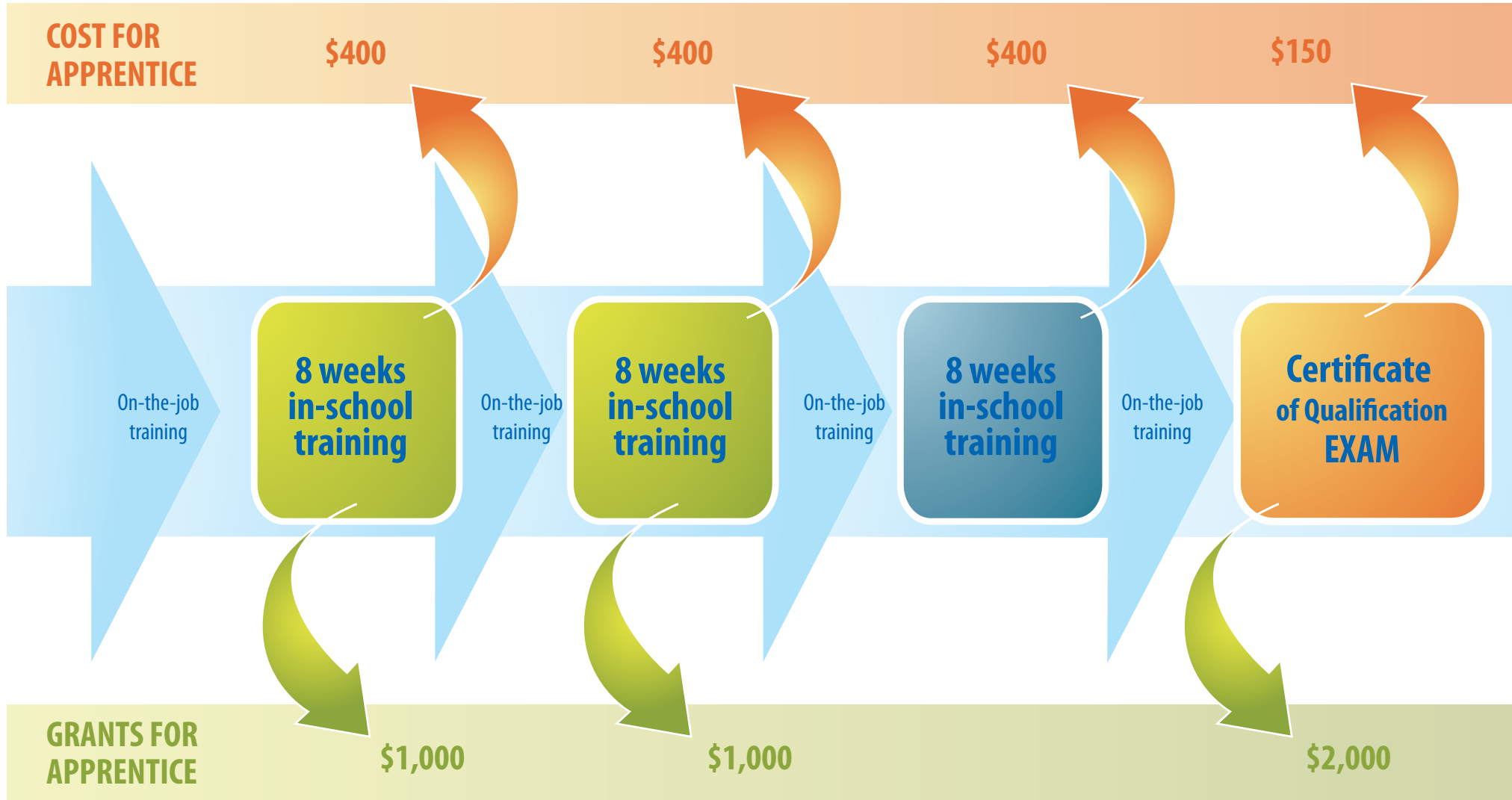
- Construction equipment mechanic
- Diesel mechanic – heavy
- Agricultural equipment technician
- Heavy-duty equipment mechanic

NON-COMPULSORY

# Agricultural Equipment Technician

Total training hours (on-the-job + in-school training) = 7,000

425A



# Alignment and Brakes Technician

**Number of Hours:** 5,400

**Number of School Sessions:** 2 x 8 weeks (480 hours)

**Compulsory Trade**

**Trade Code:** 310E

**NOC** 72410

**Motive Power Sector**

## Description

- Inspects, diagnoses and repairs electrical and electronic controls, suspension systems and frames, braking systems, tires, wheels, rims, hubs and axles, and alignment
- Diagnoses and repairs suspension systems and frames, braking systems, tires, wheels, rims, hubs and axles, alignment

## Personal Qualities

- You demonstrate carefulness and exactitude for reviewing work orders and discussing them with co-workers or supervisors
- You exercise tact for advising customers on work performed, general vehicle conditions, and future repair requirements

## Career Opportunities

- Alignment and brakes technicians may be employed by small shop or in specialized brake/steering system area of larger company
- Alignment and brakes technicians work for automobile dealers, motor vehicle manufacturers, automotive parts and accessories stores, and motor vehicle parts manufacturers

## Minimum Academic Entry Level for Apprenticeship Registration

Minimum entry for this apprenticeship is a Grade 12 diploma. The exception to this is if you are actively enrolled in high school cooperative education or an Adult Learning Centre with a co-op placement in this trade, and you have an employer willing to register you as an apprentice. Ask a guidance counsellor or your co-op teacher about the Ontario Youth Apprenticeship Program. The Ontario Youth Apprenticeship Program has no upper age limit.

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: In-school apprenticeship training is available to registered apprentices only. School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Centennial College

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

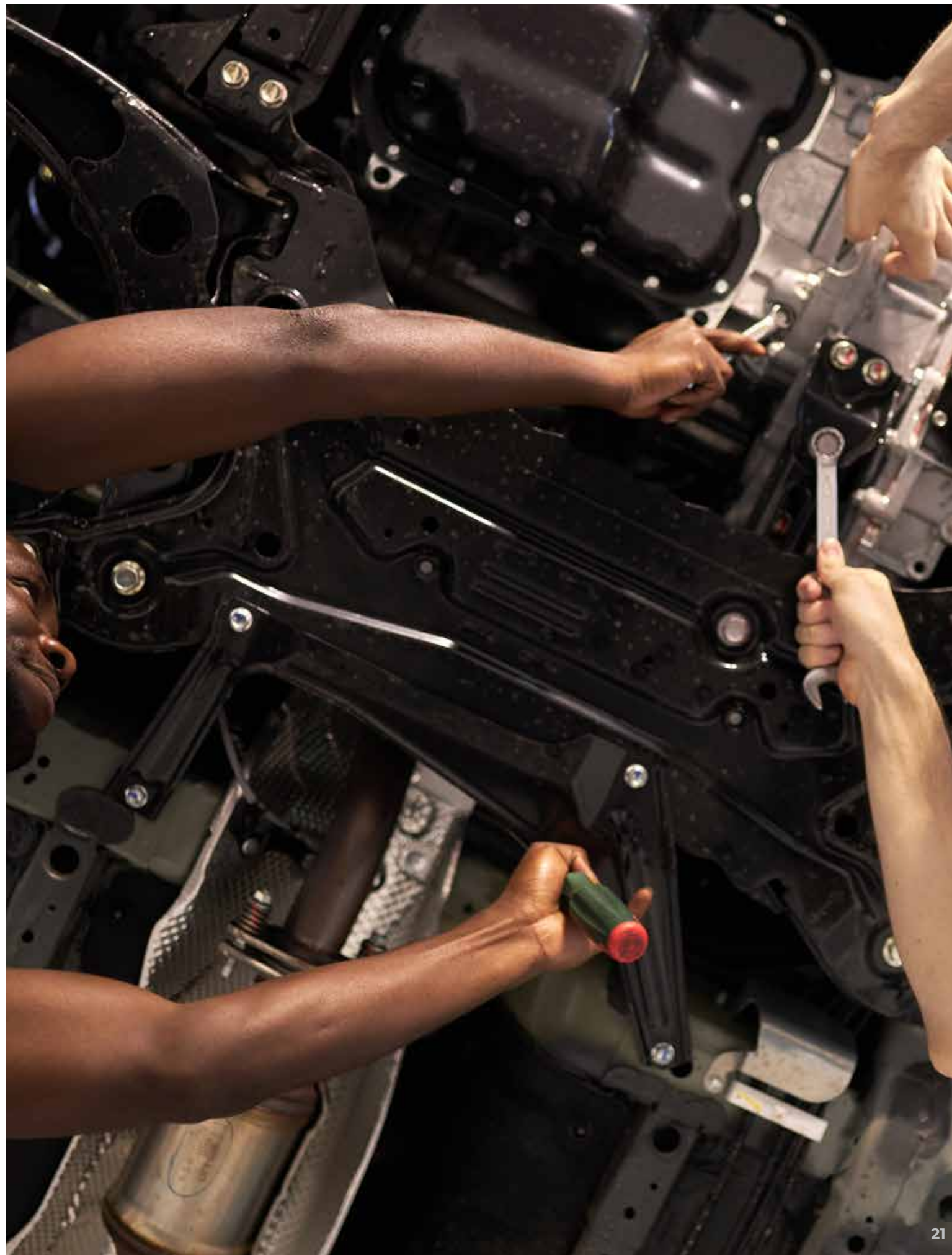
Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects [www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices [www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)





# Arborist

**Number of Hours:** 5,400 hours  
**Number of School Sessions:** 2 x 12 weeks (720 hours)

**Trade Code:** 444A  
**NOC** 22114  
**Service Sector**

## Description

- Works as part of a team in a safe and efficient manner
- Selects, adjusts, wears and maintains safety clothing and equipment.
- Protects self and others by carefully handling and carrying chainsaws and other tree maintenance equipment, mounting and dismounting equipment, and observing danger zones
- Plans work in an effective manner to ensure optimum job efficiency and effectiveness
- Uses hand, electrical, gas, hydraulics, and pneumatically powered tools
- Removes, bucks and limbs trees or parts of same by using a variety of techniques and equipment
- Works at heights utilizing a personal safety support system; climbs trees with and without spurs; and selects work positions required by the task
- Inspects woody plants to identify deficiencies/damage and to determine required method of pruning, performs various types of pruning cuts to correct deficiencies and/or obtain desired results
- Inspects woody plants for damage and determines method of repair to ensure healthy plants
- Identifies signs and symptoms of major pest types; complies with relevant legislation; performs cultural, biological, and chemical pest control; performs various methods of application and calibrates application equipment
- Applies fertilizer using surface, sub-surface, foliar, and injection or implant methods; irrigates by surface and sub-surface watering; and aerates zone of woody plants
- Inspects, handles, and transports nursery stock; digs bare root or balled in burlap woody plants manually or mechanically; plants and performs related operations and follow-up maintenance

## Personal Qualities

- You are able to work outdoors, sometimes at heights
- You are an extremely safety conscious person who learns and applies safety rules
- You have a good sense of balance
- You keep calm and cool if things go wrong
- You like challenging work

## Career Opportunities

- Arborists are employed by private residential or commercial landscape management companies, tree nurseries, tree care contractors, municipal governments, national or provincial parks departments and utility companies
- Some arborists have their own companies

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Completion of a 5,400-hour apprenticeship program is required
- If you have completed 6,000 hours of on-the-job experience/training and have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)
- An arborist must satisfactorily complete safety training as mandated by the Occupational Health and Safety Act

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Humber College

Level 1 is common with 444B Utility Arborist. For common core levels, check listings under the other trade for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

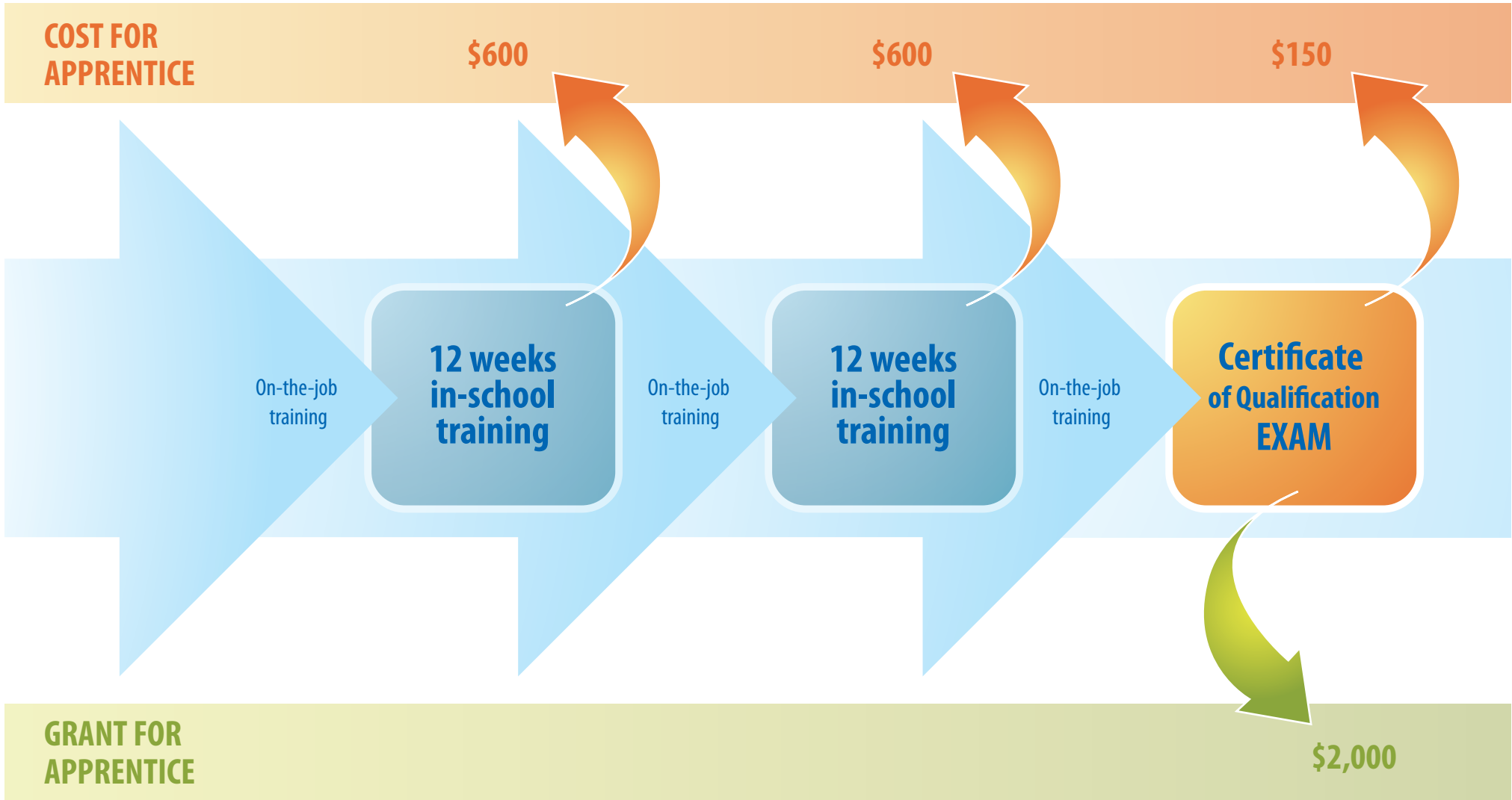
## Unofficial Ways of Referring to This Trade

- Landscape gardener
- Tree specialist
- Tree care specialist
- Tree service technician

# Arborist

Total training hours (on-the-job + in-school training) = 6,120

444A



# Architectural Glass and Metal Technician

**Number of Hours:** 7280 hours

**Number of School Sessions:** 3 x 8 weeks (720 hours)

**Red Seal Trade**

**Trade Code:** 424A

**NOC** 73111

**Construction Sector**

## Description

- Reads and interprets blueprints and specifications to determine type and thickness of glass, frame, installation procedure and materials required
- Measures and marks glass and cuts glass using glass cutters or computerized cutters
- Assembles, erects and dismantles scaffolds, rigging and hoisting equipment
- Positions glass panes into frames and secures glass using clips, points or mouldings
- Assembles and installs prefabricated glass, mirrors or glass products on walls, ceilings or exteriors of buildings
- Fabricates metal frames for glass installation
- Installs pre-cut mirrors and opaque and transparent glass panels in frames to form exterior walls of buildings
- Replaces glass in furniture and other products
- Repairs and services residential windows, commercial aluminum doors and other glass supporting structures, and replaces damaged glass or faulty sealant

## Personal Qualities

- You are able to work at considerable heights, if required
- You are able to work outside at various times of the year
- You have the stamina to be on your feet for long periods of time
- You are safety conscious
- You are in good physical condition

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities and Other Details

- Architectural glass and metal technicians and metal mechanics work for construction glass installation contractors, retail service and repair shops and glass fabrication shops
- Many construction glass contractors employ union tradespersons
- Some architectural glass and metal technicians have their own business

## Minimum Academic Entry Level for Apprenticeship Registration

- The minimum entry for apprenticeship is Grade 10; however, it is recommended you complete Grade 12 with credits in mathematics, English, science and technological courses
- Completion of a 4-year apprenticeship program at 2,000 hours per year
- If you have completed 8,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Finishing Trades Institute of Ontario – Toronto Finishing Trades Institute of Ontario – Ottawa

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

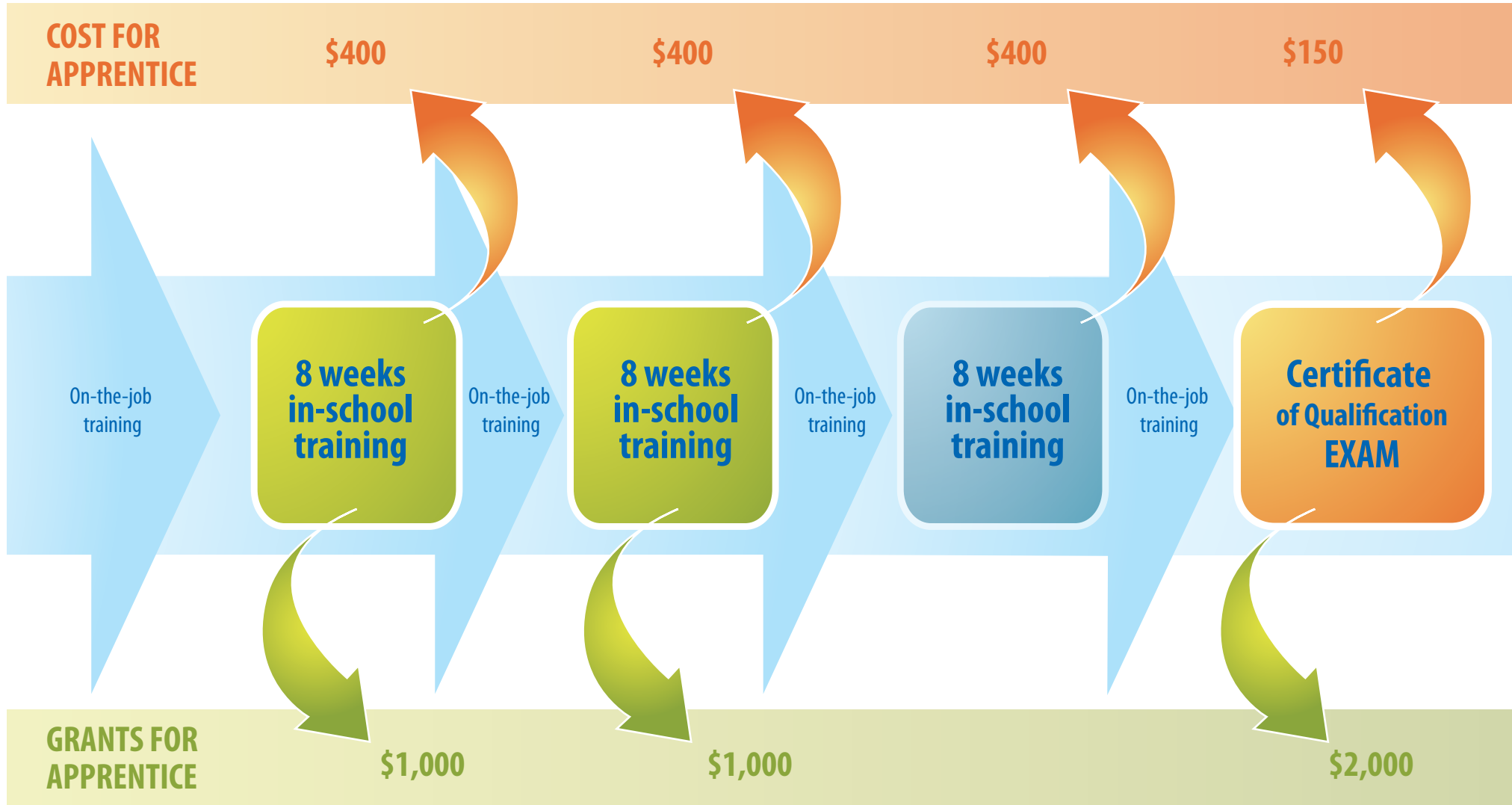
## Unofficial Ways of Referring to This Trade

- Glazier and metal mechanic
- Glazier apprentice
- Plate glass installer
- Stained glass glazier
- Structural glass glazier specialist

# Architectural Glass and Metal Technician

Total training hours (on-the-job + in-school training) = 8,000

424A





# Assistant Cook

**Number of Hours:** 2,640 hours  
**Number of School Sessions:** 12 weeks

**Trade Code:** 415B  
**NOC** 63200  
**Service Sector**

## Description

- Prepares and assembles sandwiches, simple salads and non-alcoholic beverages
- Carves cooked meats, poultry, fish and game
- Prepares, assembles and cooks complete breakfasts, short order grill, simple desserts and vegetables
- Has a working knowledge of table service, soups and sauces, salads and dressings, weights and measures, hygiene, equipment handling, sanitation, safety and equipment

## Personal Qualities

- You are safety conscious
- You care about personal hygiene
- You can stand for long periods of time
- You have the stamina to be on your feet for long periods of time
- You can multi-task
- You are willing to work weekends, holidays and various shifts
- You enjoy making and/or creating things

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

- Assistant cooks are employed in restaurants, hotels, hospitals, other health care institutions, educational institutions, tourist resorts, summer camps and other establishments
- Some assistant cooks own their own restaurants

## Minimum Academic Entry Level for Apprenticeship Registration

- The minimum entry for apprenticeship is Grade 10, however, some employers may require Grade 12
- Completion of a 2,640-hour apprenticeship program is required
- If you have completed 3,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

George Brown College	Georgian College
St. Lawrence College	Canadore College
Durham College	Humber College
Sault College	Conestoga College

Level 1 is common with 415A Cook. For common core levels, check listings under the other trade for possibly more school choices

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial Incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Dietary cook
- Second cook
- Grill cook
- Branch 2 cook
- Family dining cook
- Short order cook

NON-COMPULSORY

# Assistant Cook

Total training hours (on-the-job + in-school training) = 3,000

415B

**COST FOR  
APPRENTICE**

**\$600**

On-the-job  
training

**12 weeks  
in-school  
training**

On-the-job  
training

**Certificate  
of Apprenticeship**

**GRANT FOR  
APPRENTICE**

**\$2,000**

# Auto Body and Collision Damage Repairer

**Number of Hours:** 7,280 hours  
**Number of School Sessions:** 3 x 8 weeks (720 hours)  
**Compulsory Trade/Red Seal Trade**

**Trade Code:** 310B  
**NOC** 72411  
**Motive Power Sector**

## Description

- Repairs and replaces frame and structural components, mechanical components, electrical components, plastic and composite panels, sheet metal panels, and glass assemblies.
- Diagnoses and repairs electronic systems and assesses damages.
- Repairs, reshapes, and refits body panels, fenders, and skirtings
- Welds breaks in body panels, fenders and skirtings
- Shrinks or stretches metal body panels by heat treatment
- Removes or replaces electrical, electronic and vacuum components
- Repairs, removes or replaces wiring harnesses, air conditioning systems and water pumps
- Straightens and aligns frame and unibody assemblies
- Removes, replaces or adjusts steering and suspension components
- Aligns wheels

## Personal Qualities

- You are able to work indoors and have to tolerate loud noises, vibrations and less than perfect environmental conditions
- You enjoy working to close and exacting tolerances
- You have the stamina to be on your feet for long periods of time and are able to bend down and reach out frequently
- You are not bothered by paint and other odours
- You have and use physical strength on the job
- You like to learn new things on a consistent basis
- You will make a significant investment in tools

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

- Auto body and collision damage repairers are employed at small and medium size establishments either attached to new car dealerships, used car sales outlets or at stand-alone facilities
- Auto body and collision damage repairers may often move into running their own business, work as an estimator or claims adjuster, work for suppliers or manufacturers or work in sales or as a trainer

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op and courses in mathematics, chemistry and transportation technology may be beneficial
- Completion of a 7,280-hour apprenticeship program is required
- If you have completed 8,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Centennial College	Fanshawe College
Mohawk College	Algonquin College

Levels 1 and 2 are common with 310Q Auto Body Repairer. For common core levels, check listings under the other trade for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects [www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

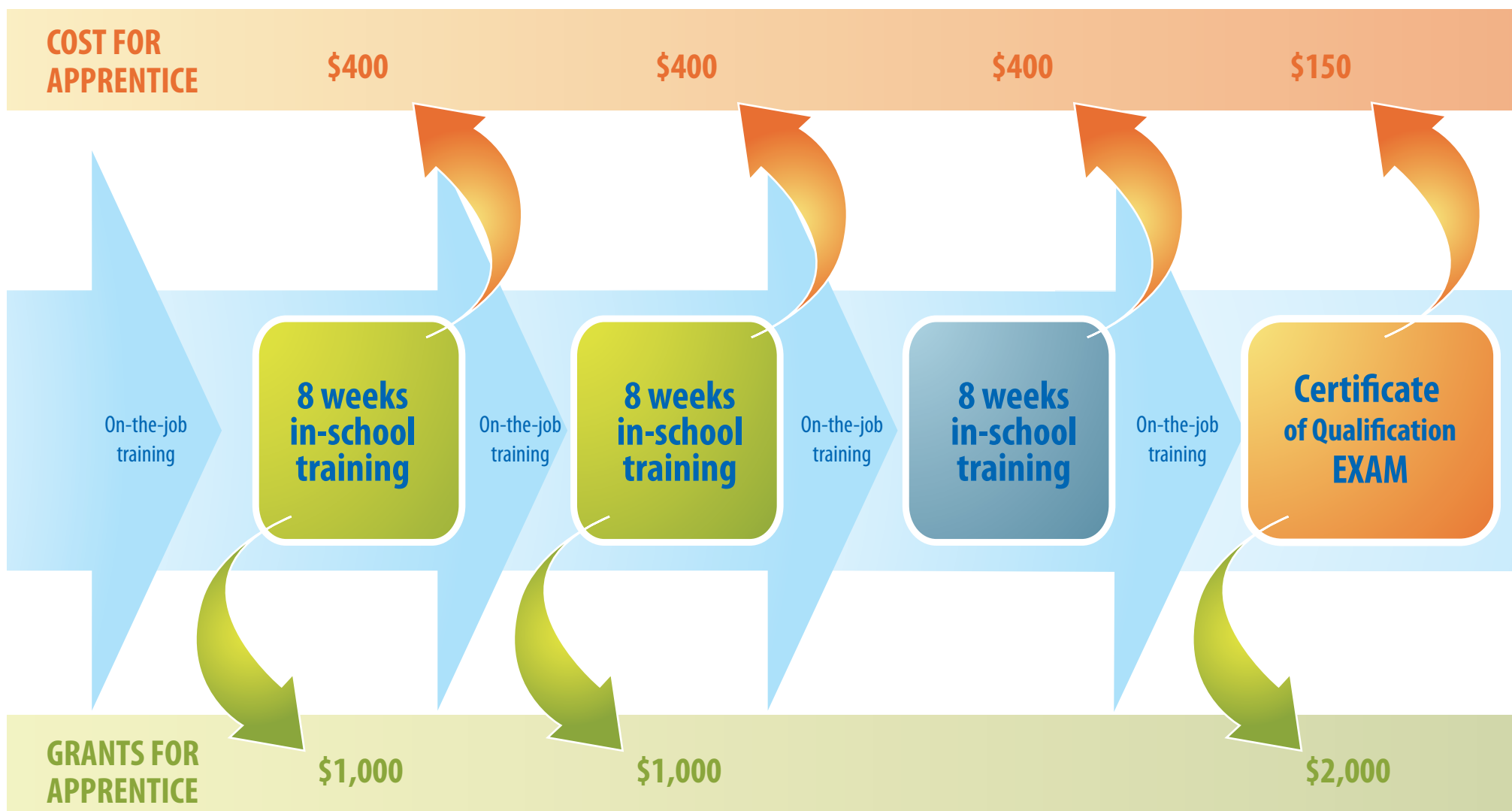
- Automotive body mechanic
- Automotive glass technician
- Automotive painter – motor vehicle repair
- Metal finisher/repairer – motor vehicle
- Motor vehicle body technician

COMPULSORY

# Auto Body and Collision Damage Repairer

Total training hours (on-the-job + in-school training) = 8,000

310B





# Auto Body Repairer

**Number of Hours:** 5,520 hours  
**Number of School Sessions:** 2 x 8 weeks (480 hours)  
**Compulsory Trade**

**Trade Code:** 310Q  
**NOC** 72411  
**Motive Power Sector**

## Description

- Repairs motor vehicle bodies and components, plastic and metal parts, glass and related components, self-belt retractor systems and trim components and hardware
- Repairs, reshapes, and refits body panels, fenders, and skirtings
- Welds breaks in body panels, fenders and skirtings
- Shrinks or stretches metal body panels by heat treatment

## Personal Qualities

- You are able to work indoors and have to tolerate loud noises, vibrations and less than perfect environmental conditions
- You enjoy working to close and exacting tolerances
- You have the stamina to be on your feet for long periods of time and are able to bend down and reach out frequently
- You are not bothered by paint and other odours
- You have and are able to use physical strength on the job
- You have a desire to learn new things on a consistent basis
- You are willing to make a significant investment in tools

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

Auto body repairers are employed at small and medium size establishments either attached to new car dealerships, used car sales outlets or at stand-alone facilities

## Minimum Academic Entry Level for Apprenticeship Registration

- The minimum entry for apprenticeship is Grade 10, however employers and unions may require Grade 12, courses in mathematics, chemistry and transportation technology may be beneficial
- Completion of a 5,520-hour apprenticeship program is required
- If you have completed 6,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Centennial College      Mohawk College

For common core levels, check listings under the other trade for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

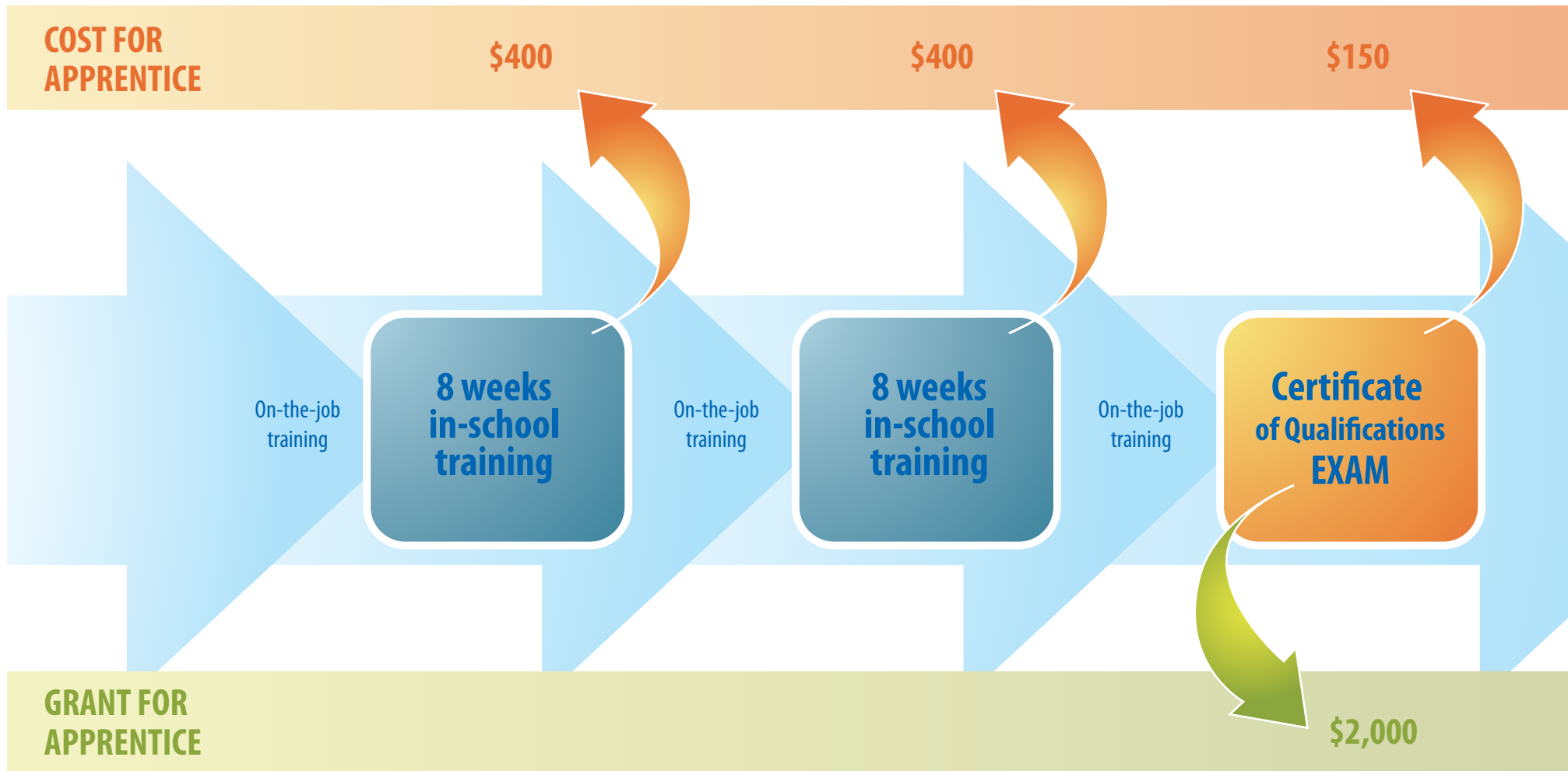
Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

# Auto Body Repairer

Total training hours (on-the-job + in-school training) = 6,000

310Q



# Automotive Painter

**Number of Hours:** 4,560 hours  
**Number of School Sessions:** 1 x 8 week (240 hours)  
**Red Seal Trade**

**Trade Code:** 410N  
**NOC** 72411  
**Motive Power Sector**

## Description

- Refinishes motor vehicle bodies by sanding, spot filling, priming, conditioning and painting
- Reads work orders and inspects condition of vehicle
- Sands repaired body surface using hand and power tools, spot fill and prime
- Masks and tapes for multi-tone paint work and protective requirements
- Prepares paint booth equipment
- Mixes paint and components and matches colours
- Uses equipment, brushes or spray guns to apply primer, paint, enamel, lacquer or other non-metallic protective and decorative coatings to automobiles
- Dries or bakes newly painted surfaces
- Refinishes galvanized outer panels and anodized aluminum mouldings
- Applies decals, transfers, stencils and other types of identification to finished paint work
- Inspects job and repair faults
- Applies or restores anti-corrosion treatments

## Personal Qualities

- You are able to work indoors with noise and environmental conditions that can be dusty and dirty with exposure to exhaust fumes, dust particles, chemicals and solvents
- You enjoy working to close tolerances
- You have the stamina to stand for long periods, bend, stoop, crouch, reach and kneel
- You are not bothered by paint and other odours
- You like to learn new things
- You have good manual dexterity

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

Automotive painters are employed by auto body repair shops, automotive and truck dealerships, custom auto shops, trucking companies and bus lines

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Completion of a 4,560-hour apprenticeship program is required

- If you have completed 4,800 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

SATA Canada Inc. – Concord

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Automotive painter – motor vehicle repair
- Automotive painter apprentice
- Painter – motor vehicle report
- Metal finisher – motor vehicle





# Automotive Service Technician

**Number of Hours:** 6,500 hours  
**Number of School Sessions:** 3 x 8 weeks (720 hours)  
**Compulsory Trade/Red Seal Trade**

**Trade Code:** 310S  
**NOC** 72410  
**Motive Power Sector**

## Description

- Reviews work orders and discusses work with supervisor
- Inspects motor in operation, road test vehicle, and tests automotive systems and components using computerized diagnostic and other testing devices to diagnose and isolate faults
- Adjusts, repairs or replaces parts and components of automotive systems including fuel, brake, steering and suspension, engine and drive train, emission control and exhaust, cooling and climate control, and electrical and electronic systems using hand tools and other specialized automotive repair equipment
- Tests and adjusts repaired systems to manufacturer's performance specifications
- Performs scheduled maintenance service such as oil changes, lubrications and tune-ups
- Advises customers on work performed, general vehicle conditions and future repair requirements

## Personal Qualities

- You are able to work indoors and tolerate loud noises, grease, oil and gasoline fumes
- You enjoy working to close and exacting tolerances
- You have the stamina to be on your feet for long periods of time and must bend down and reach up frequently
- You are not bothered by standing on concrete all day
- You have and use physical strength on the job
- You work with computers and computerized equipment

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

- Automotive service technicians are employed at small, medium and large size establishments such as new car dealerships, used car sales outlets, at stand-alone facilities, suppliers or manufacturers
- Automotive service technicians may often work as service advisors or in sales, run their own businesses

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Completion of a 6,500-hour apprenticeship program is required
- If you have completed 7,220 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Durham College  
Algonquin College  
Confederation College  
Canadore College  
Collège Boréal  
Fanshawe College  
St. Lawrence College  
Georgian – Owen Sound  
Cambrian College

La Cité Collégiale  
Conestoga College  
Loyalist College  
Mohawk College  
Niagara College  
St. Clair College  
Sault College  
Centennial College  
Northern College

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

- Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

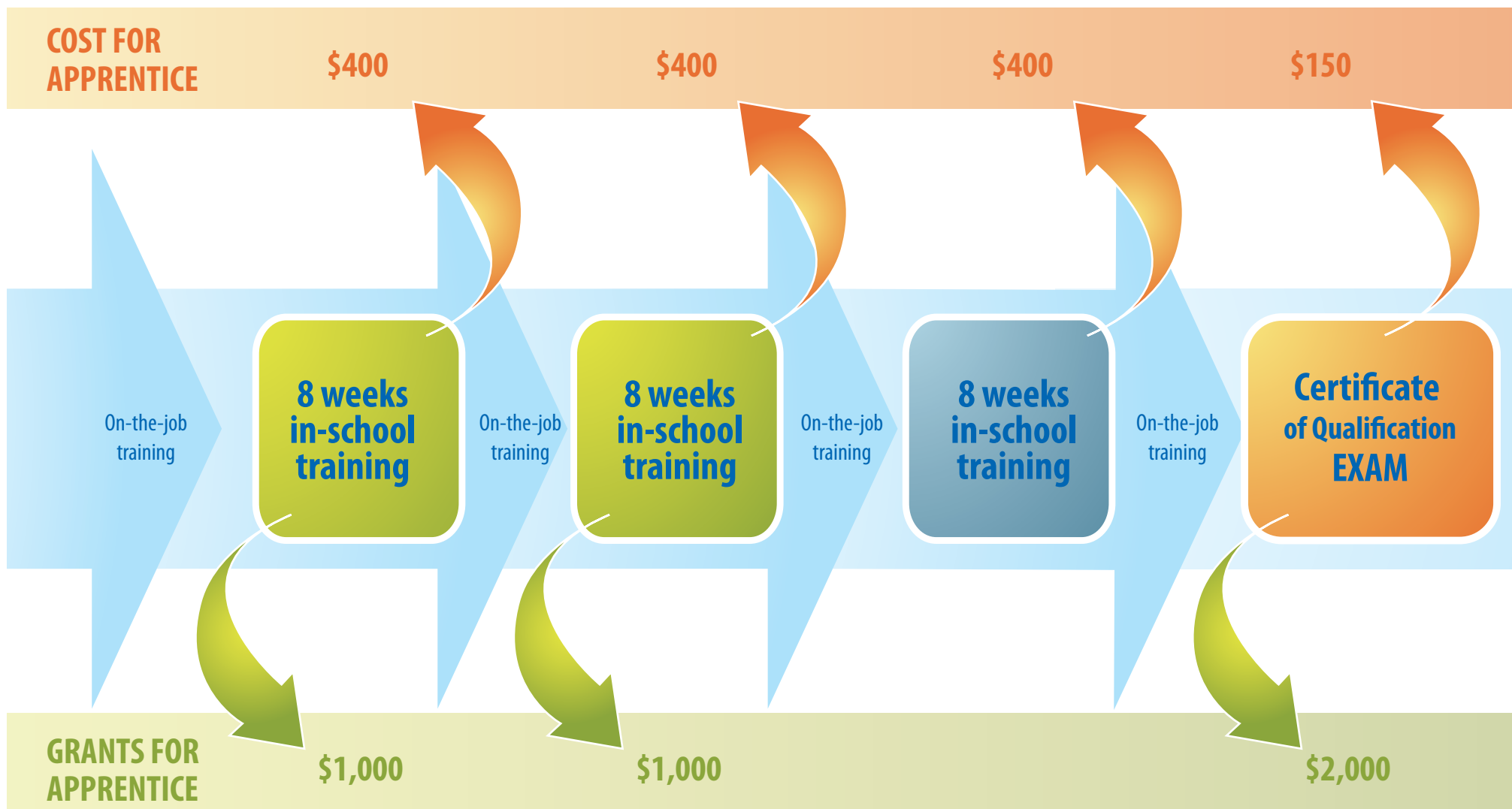
- Automobile mechanic
- Transmission mechanic
- Tune-up specialist, motor vehicle
- Class "A" mechanic

COMPULSORY

# Automotive Service Technician

Total training hours (on-the-job + in-school training) = 7,220

310S



# Baker

**Number of Hours:** 5,280 hours  
**Number of School Sessions:** 2 x 12 weeks (720 hour)

**Trade Code:** 423A  
**NOC** 63200  
**Service Sector**

## Description

- Is responsible for understanding and practicing safety precautions to protect themselves and others
- Has a thorough understanding of business practices in order to develop and maintain a rapport with coworkers, maintains inventory control and develops a production schedule amongst other things
- Bakes bread, buns, rolls by straight or sponge dough and yeast raised pastry
- Produces paste/dough products and puff pastry
- Bakes cookies, pies, tarts and squares
- Prepares and produces basic fillings
- Produces batters which will later be baked
- Is responsible for producing aerated products
- Is able to produce fillings, icings and creams
- Is responsible for producing and finishing cakes
- Is able to display and present finished products in packaging and/or display cases

## Personal Qualities

- You care about personal hygiene
- You have the stamina to be on your feet for long periods of time
- You are able to lift heavy objects as needed

## Career Opportunities

- Hotels and restaurants employ bakers but some contract out their baking to wholesale manufacturers
- Demand is high from bake shops and bakery cafes for personalized services
- Many bakers are self employed

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Completion of a 5,280-hour apprenticeship program is required

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

George Brown College   Humber College

Levels 1 and 2 are common with 423A Baker-Pâtissier. For common core levels, check listings under the other trade for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Baker apprentice
- Bakery supervisor
- Bread baker
- Head baker
- Pastry Chef

# Baker

Total training hours (on-the-job + in-school training) = 6,000

423A

**COST FOR  
APPRENTICE**

**\$400**

**\$400**

On-the-job  
training

**12 weeks  
in-school  
training**

On-the-job  
training

**12 weeks  
in-school  
training**

On-the-job  
training

**Certificate  
of Apprenticeship**

**GRANT FOR  
APPRENTICE**

**\$2,000**



# Baker-Pâtissier

**Number of Hours:** 6,130 hours

**Number of School Sessions:** 2 x 12 weeks, 1 x 5 weeks (870 hours)

**Red Seal Trade**

**Trade Code:** 423C

**NOC** 63200

**Service Sector**

## Description

- Is responsible for understanding and practicing safety precautions to protect themselves and others
- Has a thorough understanding of business practices in order to develop and maintain a rapport with coworkers, maintains inventory control and develops a production schedule amongst other things
- Bakes bread, buns, rolls by straight or sponge dough and yeast-raised pastry
- Produces paste/dough products and puff pastry
- Bakes cookies, pies, tarts and squares
- Prepares and produces basic fillings
- Produces batters which will later be baked
- Is responsible for produce aerated products
- Is able to produce fillings, icings and creams
- Produces and finishes cakes
- Is able to produce decorated and specialty items in addition to confectionery items
- Is responsible for producing icing
- Is able to display and present finished products in packaging and/or display cases

## Personal Qualities

- You care about personal hygiene
- You have the stamina to be on your feet for long periods of time
- You are able to do heavy lifting

## Career Opportunities

- Hotels and restaurants employ baker-pâtissiers but some contract out their baking to wholesale manufacturers
- Demand is high from bake shops and bakery cafes for personalized services
- Many baker-pâtissiers are self employed

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Completion of a 6,130-hour apprenticeship program is required
- If you have completed 7,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

George Brown College

Levels 1 and 2 are common with 423A Baker. For common core levels, check listings under the other trade for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Baker apprentice
- Bakery supervisor
- Bread baker
- Head baker
- Pastry chef



# Brick and Stone Mason

**Number of Hours:** 4880 hours

**Number of School Sessions:** 3 x 8 weeks (720 hours)

**Red Seal Trade**

**Trade Code:** 401A

**NOC** 72320

**Construction Sector**

## Description

- Lays brick and stone, concrete blocks, structural tiles and other kinds of masonry in residential, commercial and industrial settings
- Reads sketches and blueprints to calculate materials required
- Cuts and trims bricks and concrete blocks to specification using hand and power tools
- Constructs, erects, installs and repairs walls, arches, paving, floors, fireplaces, chimneys, smokestacks and other such structures
- Lays radial bricks to build masonry shells of industrial chimneys
- Installs firebricks to line industrial chimneys, furnaces, kilns, boilers and similar installations
- Lays bricks, stone or similar materials to provide veneer facing to walls or other surfaces
- Lays bricks or other masonry units to build patios, garden walls and other decorative installations

## Personal Qualities

- You are able to work in cramped areas or at considerable heights, if required
- You work outdoors in changeable climatic conditions
- You have the stamina to be on your feet for long periods of time
- You are in good physical condition to lift and carry heavy materials
- You enjoy working with your hands and tools and working to exact standards and close tolerances

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

- Employed on a project-by-project basis or work for a construction company
- Many brick and stone mason journeypersons have their own businesses
- Small, medium and large companies, unionized and non-unionized employ masons on a variety of projects in the residential, commercial and industrial sectors

## Minimum Academic Entry Level for Apprenticeship Registration

- The minimum entry for apprenticeship is Grade 10, however most employers require Grade 12
- Completion of a 4-year apprenticeship program at 1,400 hours per year
- If you have completed 5,600 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Canada Masonry Centre Mississauga, ON  
LIUNA  
Universal Workers Union Local 183 – Cobourg

Conestoga College  
St. Lawrence College  
St. Clair College  
La Cité Collégiale

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects [www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

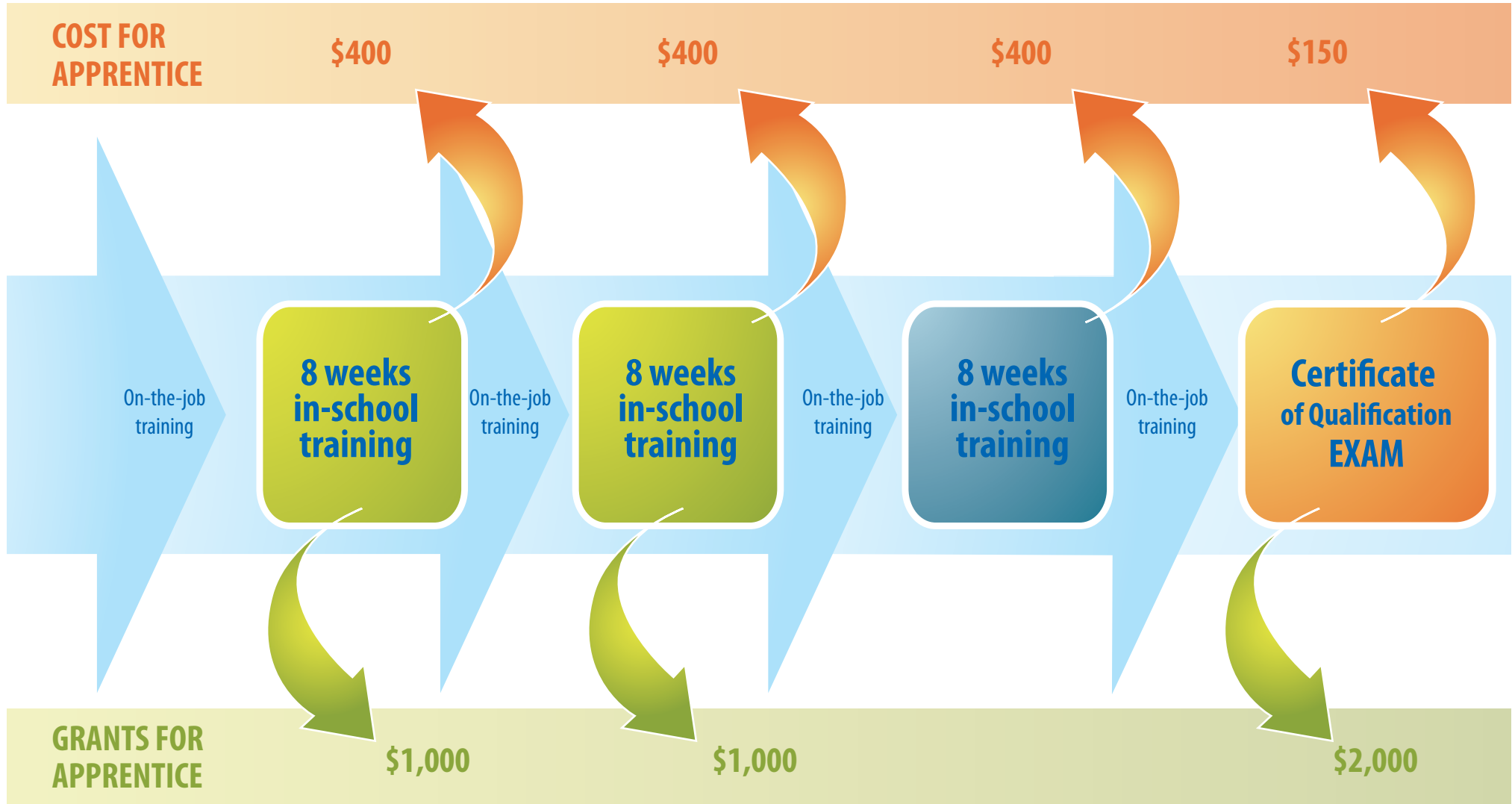
- Bricklayer
- Mason
- Refractory bricklayer
- Stonecutter
- Stonemason

NON-COMPULSORY

# Brick and Stone Mason

Total training hours (on-the-job + in-school training) = 5,600

401A





# Cabinetmaker

**Number of Hours:** 7,280 hours  
**Number of School Sessions:** 3 x 8 weeks (720 hours)  
**Red Seal Trade**

**Trade Code:** 438A  
**NOC** 72311  
**Industrial Sector**

## Description

- Studies plans, specifications or drawings of articles to be made or prepares specifications
- Understands materials selection
- Marks outlines or dimensions of parts on wood
- Is proficient in the operation of woodworking machines such as power saws, jointers, mortises and shapers; uses hand tools to cut, shape and form parts and components
- Trims joints and fits parts and subassemblies together to form complete unit using glue and clamps; reinforces joints using nails, screws or other fasteners
- Sands wooden surfaces and applies veneer, stain or polish to finished products
- Repairs or restyles wooden furniture, fixtures and related products
- Estimates amount, type and cost of materials required

## Personal Qualities

- You are able to work inside and be exposed to sawdust, glues and finishes
- You like working with wood and with hand and power tools
- You use math skills
- You have the stamina to be on your feet for long periods of time
- You work to exacting tolerances and attempt to produce perfect finished products

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

- Journeypersons work for companies in furniture and other wood products manufacturing
- Some cabinetmakers own their own business

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Completion of a 7,280-hour apprenticeship program is required
- If you have completed 8,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Conestoga College

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

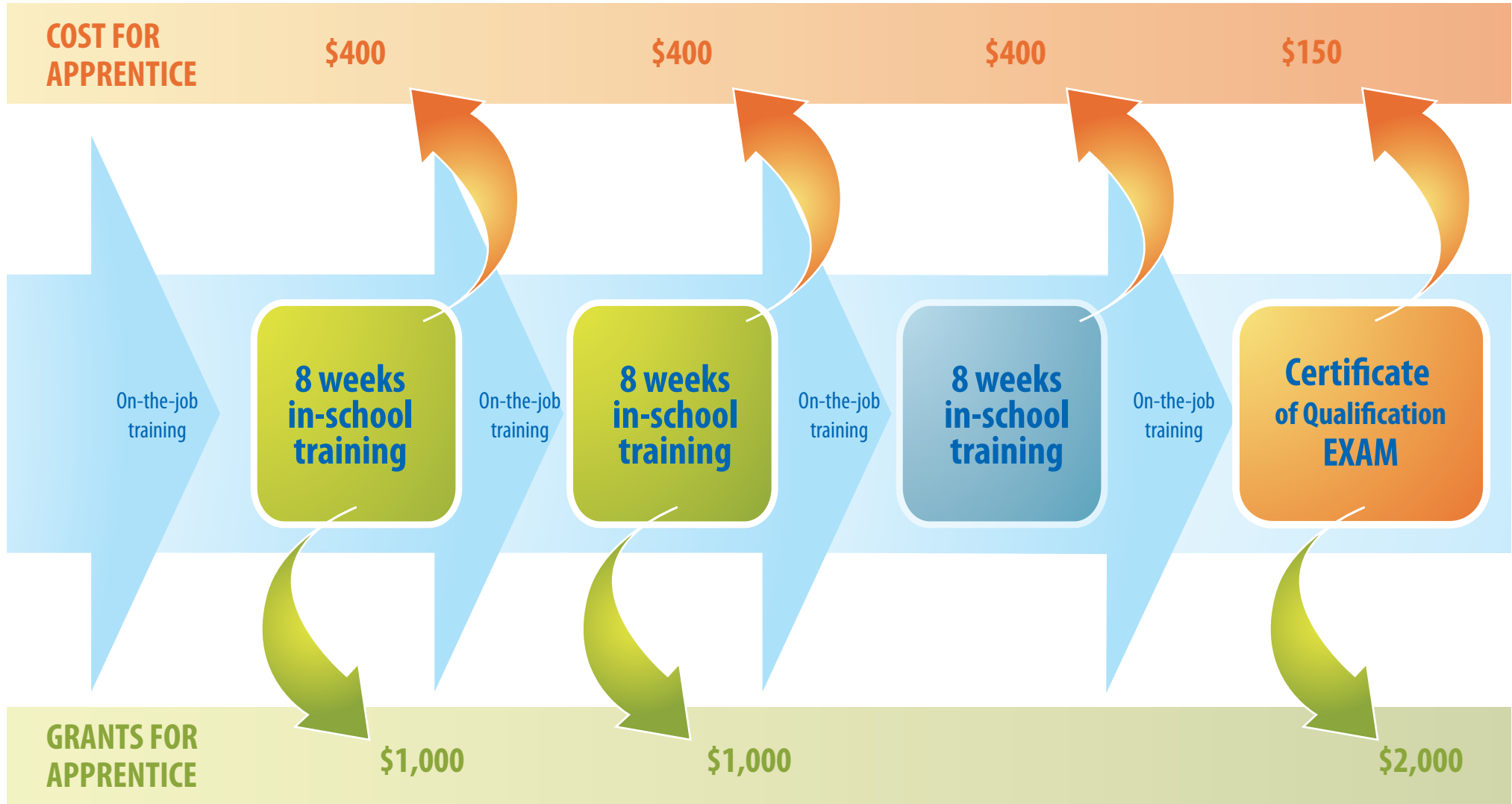
Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Custom wood furniture maker
- Furniture cabinetmaker
- Patternmaker

# Cabinetmaker

Total training hours (on-the-job + in-school training) = 8,000



# Cement (Concrete) Finisher

**Number of Hours:** 4,020 hours  
**Number of School Sessions:** 2 x 8 weeks (480 hours)  
**Red Seal Trade**

**Trade Code:** 244G  
**NOC** 73100  
**Construction Sector**

## Description

- Finishes freshly poured concrete
- Installs anchor bolts, steel plates, door sills in fresh concrete
- Waterproofs, restores and repairs concrete surfaces and structures
- Applies hardening and sealing compounds to cure new concrete
- Operates power vibrator to compact concrete
- Directs placement of concrete into forms or onto surfaces, inspects formwork, granular base and steel reinforcement materials

## Personal Qualities

- You are able to work without close supervision
- You are able to bend and stoop to work
- You are able to work around high noise
- You are able to work in a variety of weather conditions
- You have some artistic ability and ability to pay attention to detail

## Career Opportunities

- Cement finishers are employed by construction companies, bricklaying contractors and manufacturers of precast concrete products
- Supervisory positions are possible with experience

## Minimum Academic Entry Level for Apprenticeship Registration

- The minimum entry for apprenticeship is Grade 10; however, most employers require Grade 12
- Completion of a 4,500-hour apprenticeship program is required

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

L.I.U.N.A. Local 183      L.I.U.N.A. Local 506  
L.I.U.N.A. Local 1059    L.I.U.N.A. Local 1089  
L.I.U.N.A. Local 625      L.I.U.N.A. Local 837  
Construction & Allied Workers Local Union 607

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journey person's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects [www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices [www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

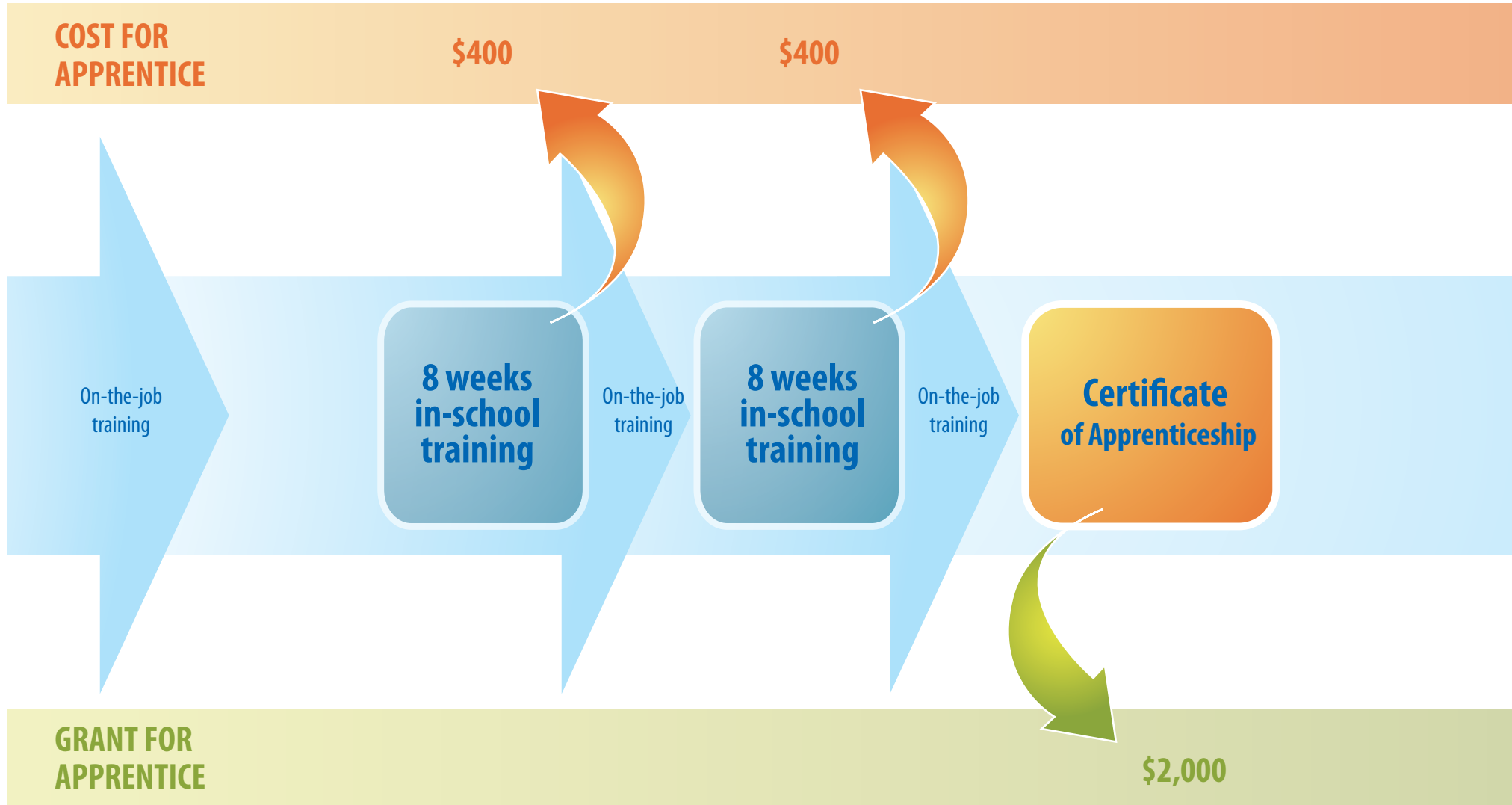
- Cement finisher apprentice
- Cement mason
- Concrete mason
- Precast concrete finisher

NON-COMPULSORY

# Cement (Concrete) Finisher

Total training hours (on-the-job + in-school training) = 4,500

244G





# Child and Youth Worker

**Number of Hours:** 6,240 hours  
**Number of School Sessions:** 32 weeks total (960 hours)

**Trade Code:** 620A  
**NOC** 42201  
**Service Sector**

## Description

- Protects themselves and others by maintaining a safe environment via safety inspections, emergency procedures, crisis intervention techniques, physical restraint techniques, and identifying signs and symptoms of abuse
- Practices and promotes health through consultations with health professionals, social agencies, and by monitoring health and emotional problems
- Communicates with clients, colleagues and other health and social professionals
- Builds relationships with clients by demonstrating interest in the client, responding to client's behaviour, building self-esteem and negotiating focused goals
- Plans and sets up appropriate programs by identifying client's physical, mental, and emotional requirements
- Works in a group setting by planning, organizing, leading, and facilitating group activities
- Works with the family to assist in identifying and assessing client's needs
- Establishes goals and plans of action
- Participates as a member in a team environment by promoting and maintaining professional conduct, resolving conflict, acknowledging individual differences and supporting team members
- Performs organizational duties by completing documentation, performing administrative duties, testifying in court and managing workload

## Personal Qualities

- You like helping people
- You like working with young people with problems
- You are in good emotional condition and will work to stay that way
- You have the emotional stamina to give of yourself
- You respond well to stress
- You are well organized and have a high energy level
- You are safety conscious
- You are dedicated to lifelong learning

## Career Opportunities

Child and youth workers are employed by school boards, group homes, hospitals, and correctional facilities

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Completion of a 6,240-hour apprenticeship program is required

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Centennial College  
Georgian College  
Mohawk College

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Crisis intervention worker
- Group home worker
- Family service worker
- Social service worker
- Developmental service worker

# Child and Youth Worker

Total training hours (on-the-job + in-school training) = 7,200

620A

## COST FOR APPRENTICE

\$70/course, \$1,200 total, pay as you go

On-the-job  
training

**13.5 weeks  
in-school  
training  
405 hours**

On-the-job  
training

**10.2 weeks  
in-school  
training  
305 hours**

On-the-job  
training

**5.6 weeks  
in-school  
training  
170 hours**

On-the-job  
training

**2.6 weeks  
in-school  
training  
80 hours**

On-the-job  
training

**Certificate  
of Apprenticeship**

## GRANT FOR APPRENTICE

**\$2,000**

Upon completion of the subject-matter apprenticeship classes, on-the-job hours and employer approval, the apprentice is granted a Child and Youth Worker Certificate of Apprenticeship. A full Child and Youth Worker diploma can be obtained with additional credits as specified by the college and by continuing with the same college.

# Child Development Practitioner

**Number of Hours:** 5,280 hours  
**Number of School Sessions:** 750 hours

**Trade Code:** 620C  
**NOC** 42202  
**Service Sector**

## Description

- Creates and implements a developmentally appropriate environment for children aged 0-12 years
- Establishes and maintains a safe and enriching learning environment
- Treats all children equally and objectively with dignity and respect while recognizing diversity
- Works closely with children's families and community agencies
- Develops a variety of activities for children that include but are not limited to: appropriate social behaviours; physical activities; science; math; telling and reading stories; singing songs; providing opportunities for creative expression through crafts, dramatic play, and music
- Works within a team of other child development practitioners, such as early childhood educators (ECEs) and assistants to ensure quality and safety of programs offered

## Personal Qualities

- You enjoy working with children and have a sense of commitment towards them
- You have a high level of energy and a good sense of humour
- You are patient and can multi-task
- You have good written and verbal communication skills
- You are friendly, creative, responsible, and willing to learn
- You are able to work with diverse groups of people

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

- Child development practitioners work at childcare centres, before and after school programs, nursery schools, kindergartens, community centres, for children with exceptionalities, hospitals, educational system, cruise lines, resorts
- Some practitioners have their own childcare businesses
- As a child development practitioner, you have a good base in child development that could lead into careers such as a children's author; teacher; developer of games, toys, and curriculum for children

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Completion of a 5,280-hour apprenticeship program is required
- In addition to receiving a Certificate of Apprenticeship, apprentices may be able to receive their Early Childhood Education Diploma

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Canadore College	Loyalist College
Fanshawe College	Georgian College
La Cité Collégiale	Mohawk College
Collège Boréal	Conestoga College
Durham College	George Brown College
Seneca College	

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial Incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial Incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Early childhood educator (ECE)
- Nursery school teacher
- Day care coordinator
- Early childhood assistant
- Childcare worker

NON-COMPULSORY

# Child Development Practitioner

Total training hours (on-the-job + in-school training) = 6,030

620C

## COST FOR APPRENTICE

About \$70/course, \$1,280 total, pay as you go

On-the-job  
training



23 Courses (750 hours)

On-the-job  
training

On-the-job  
training

**Certificate  
of Apprenticeship**

## GRANT FOR APPRENTICE

\$2,000

Upon completion of the 23 subject-matter courses, on-the-job hours and employer approval, the apprentice is granted a Child Development Practitioner Certificate of Apprenticeship. A full Early Childhood Educator diploma can be obtained with additional credits as specified by the college and by continuing with the same college.



# Concrete Pump Operator

**Number of Hours:** 2000 hours  
**Number of School Sessions:** 5.3 weeks (159 hours)

**Trade Code:** 637C  
**NOC** 75110  
**Construction Sector**

## Description

- Coordinates the placement of concrete through a pump at the work site
- Operates the vehicle and loads and unloads concrete pumps and attachments
- Sets up the concrete pumps and components and concrete delivery system, operates high pressure pumps and separate placing booms
- Performs pre-operational inspections, safety and operational checks and preventative maintenance
- Operates concrete pumps and related components
- Monitors equipment performance and the movement of the concrete to the pour location
- Resolves issues related to the movement of pumpable concrete
- Maintains the equipment, cleans concrete pumps and components
- Reads and interprets government legislation, site plans and manufacturers' manuals (i.e., survey indicators)
- Communicates through various techniques including hand signals
- Drives between multiple job sites each day to pump concrete need for constructions projects.

## Personal Qualities

- You are calm and patient as opposed to nervous and impetuous
- You have excellent communication skills
- You work well with others
- You enjoy working outdoors in all weather conditions.
- You are easy to get along with
- You are conscious of the effects your actions have on other workers
- You have the physical requirements: normal vision and hearing, and the ability to lift and carry pipes and clamps
- You have some mechanical aptitude which is very helpful, but it is not essential for this trade
- You have common sense
- You have a positive attitude
- You have a good sense of humour which will help in this job
- You are always prepared for work and have the ability to work well under pressure

## Career Opportunities

Concrete pump operators are skilled machine operators typically working on construction job sites

## Minimum Academic Entry Level for Apprenticeship Registration

Grade 12 graduate or participating in high school co-op

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Contact the Ministry of Labour, Immigration, Training and Skills Development for postsecondary training delivery agent information.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Concrete mixer helper
- Construction helper
- Construction labourer
- Labourer, concrete paving

NON-COMPULSORY

# Concrete Pump Operator

Total training hours (on-the-job + in-school training) = 2,159

637C

COST FOR  
APPRENTICE

\$265

\$150

On-the-job  
training

5.3 weeks  
in-school  
training  
159 hours

On-the-job  
training

Certificate  
of Qualification  
EXAM

GRANT FOR  
APPRENTICE

\$2,000

# Construction Boilermaker

**Number of Hours:** 5880 hours

**Number of School Sessions:** 3 x 8 weeks (720 hours)

**Red Seal Trade**

**Trade Code:** 428A

**NOC** 72103

**Construction Sector**

## Description

- Reads blueprints or specifications to plan sequence of operation
- Lays out plate, sheet steel or other heavy metal and marks bending and cutting lines on work piece using protractors, compasses and drawing instruments or templates
- Sets up and operates heavy-metal working machines such as brakes, rolls, shears, flame cutters and drill presses to cut, shape and form metal into parts or sections
- Fits and welds metal parts or sections together to fabricate boilers, vessels, tanks, heat exchangers, piping and other heavy-metal products
- Erects and installs boilers and other heavy-metal products according to specifications using hand and power tools
- Repairs and performs maintenance work on boilers and other heavy-metal products
- Directs activities of hoist or crane operators and other workers during fabrication, assembly, installation or repair of structures
- Tests finished structures using a variety of methods
- Some boilermakers may specialize in rigging and hoisting, preparation and layout, and welding aspects of the trade

## Personal Qualities

- You are able to work in cramped areas, if required
- You like to work outdoors, sometimes at great heights
- You are able to handle being exposed to heat, cold, dust and fumes
- You are able to work around hazardous materials at times
- You have the stamina to be on your feet for long periods of time
- You enjoy working to close and exacting tolerances
- You enjoy working in a heavy industrial setting

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities and Other Details

- Construction boilermakers work for contractors that have projects with companies in the heavy industrial sector such as boiler fabrication, manufacturing, ship building and other similar industrial establishments
- The majority of construction boilermakers are union members

## Minimum Academic Entry Level for Apprenticeship Registration

- The minimum entry for apprenticeship is Grade 10; however, most employers require Grade 12
- Completion of 4-year apprenticeship program at 1,650 hours per year
- If you have completed 6,600 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Humber College  
Lambton College  
Georgian College – Owen Sound

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

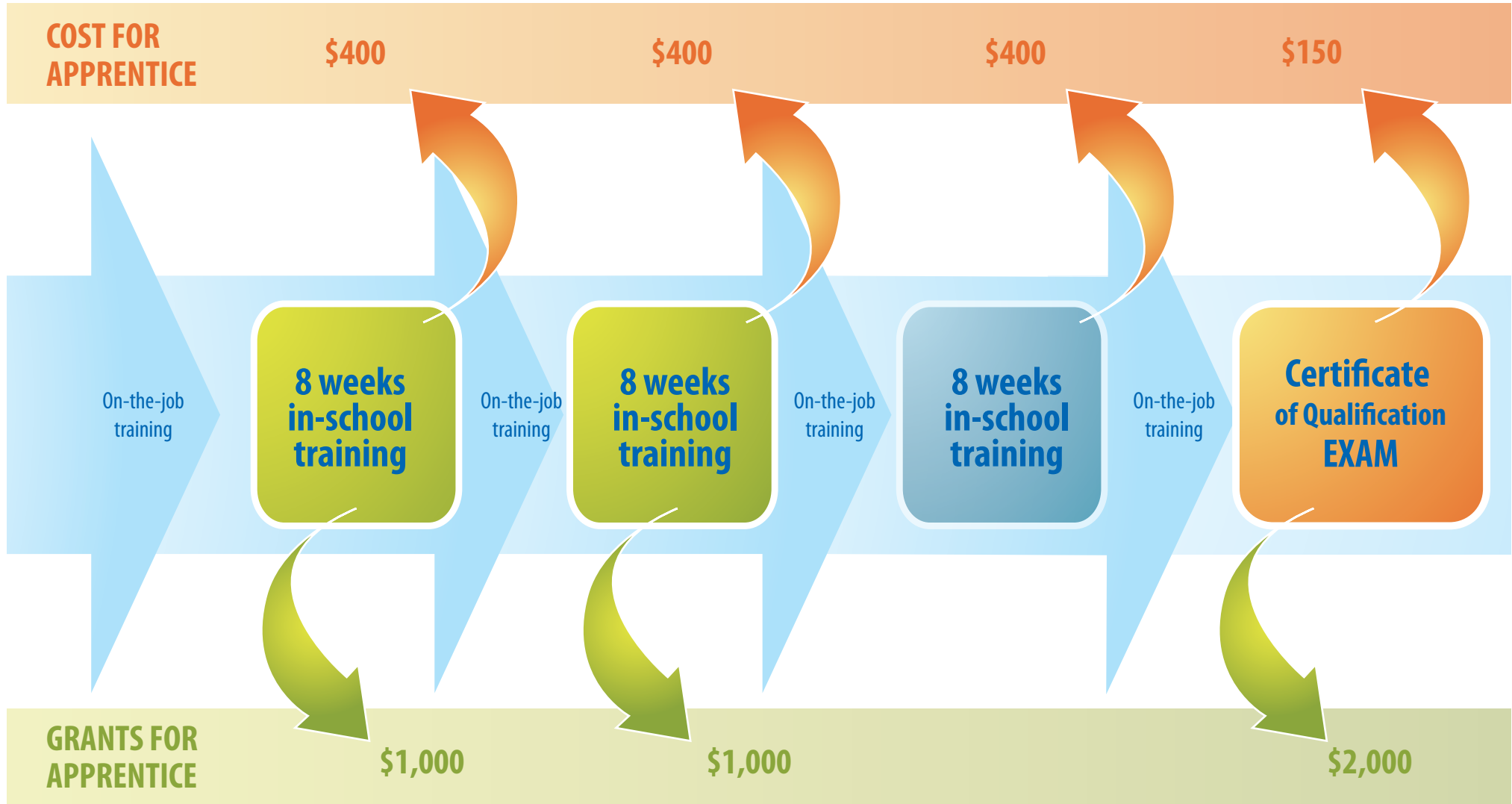
## Unofficial Ways of Referring to This Trade

- Boiler fitter
- Boiler installer
- Construction/industrial boilermaker
- Marine boilermaker
- Pressure vessel fabricator

# Construction Boilermaker

Total training hours (on-the-job + in-school training) = 6,660

428A



# Construction Craft Worker

**Number of Hours:** 2,400 hours  
**Number of School Sessions:** 2 x 8 weeks (480 hours)  
**Red Seal Trade**

**Trade Code:** 450A  
**NOC** 75110  
**Construction Sector**

## Description

- Reads blueprints
- Prepares, excavates, backfills, compacts and cleans up work sites
- Loads and unloads construction materials, moves materials to work areas
- Erects and dismantles concrete forms, scaffolding, ramps, catwalks, shoring and barricades required at construction sites
- Mixes, pours and spreads materials such as concrete and asphalt
- Assists varied tradespersons such as carpenters, bricklayers, cement finishers, roofers and glaziers in construction activities
- Levels earth to fine grade specifications using rake and shovel
- Assists in demolishing buildings using prying bars and other tools and sort, cleans and piles salvaged materials
- Removes rubble and other debris at construction sites using rakes, shovels, wheelbarrows and other equipment
- Operates pneumatic hammers, vibrators and tampers as directed
- Tends or feeds machines or equipment used in construction such as mixers, compressors and pumps

## Personal Qualities

- You work outdoors in changeable climatic conditions
- You have the stamina to be on your feet for long periods of time
- You are punctual, show initiative and persistence and are able to take orders
- You are in good physical condition and enjoy hard physical labour
- You are able to handle being exposed to water, noises, vibrations and situations requiring attention to safety
- You enjoy working with hand tools
- You are willing to work as part of a team

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

- Construction craft workers are employed on a project-by-project basis or work for a construction company
- Small, medium and large companies, unionized and nonunionized employ construction craft workers on a variety of projects in the residential, commercial and industrial sectors

## Minimum Academic Entry Level for Apprenticeship Registration

- The minimum entry for apprenticeship is Grade 10; however, most employers will require Grade 12
- Completion of a 2,400-hour apprenticeship program is required
- If you have completed 3,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of
- Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

LIUNA

Local 183 – Training Centre Cobourg, ON Construction & Allied Workers Local 607

L.I.U.N.A. 506 L.I.U.N.A. 1059

L.I.U.N.A. 527 L.I.U.N.A. 625

L.I.U.N.A. 837 Labourers Local 493

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

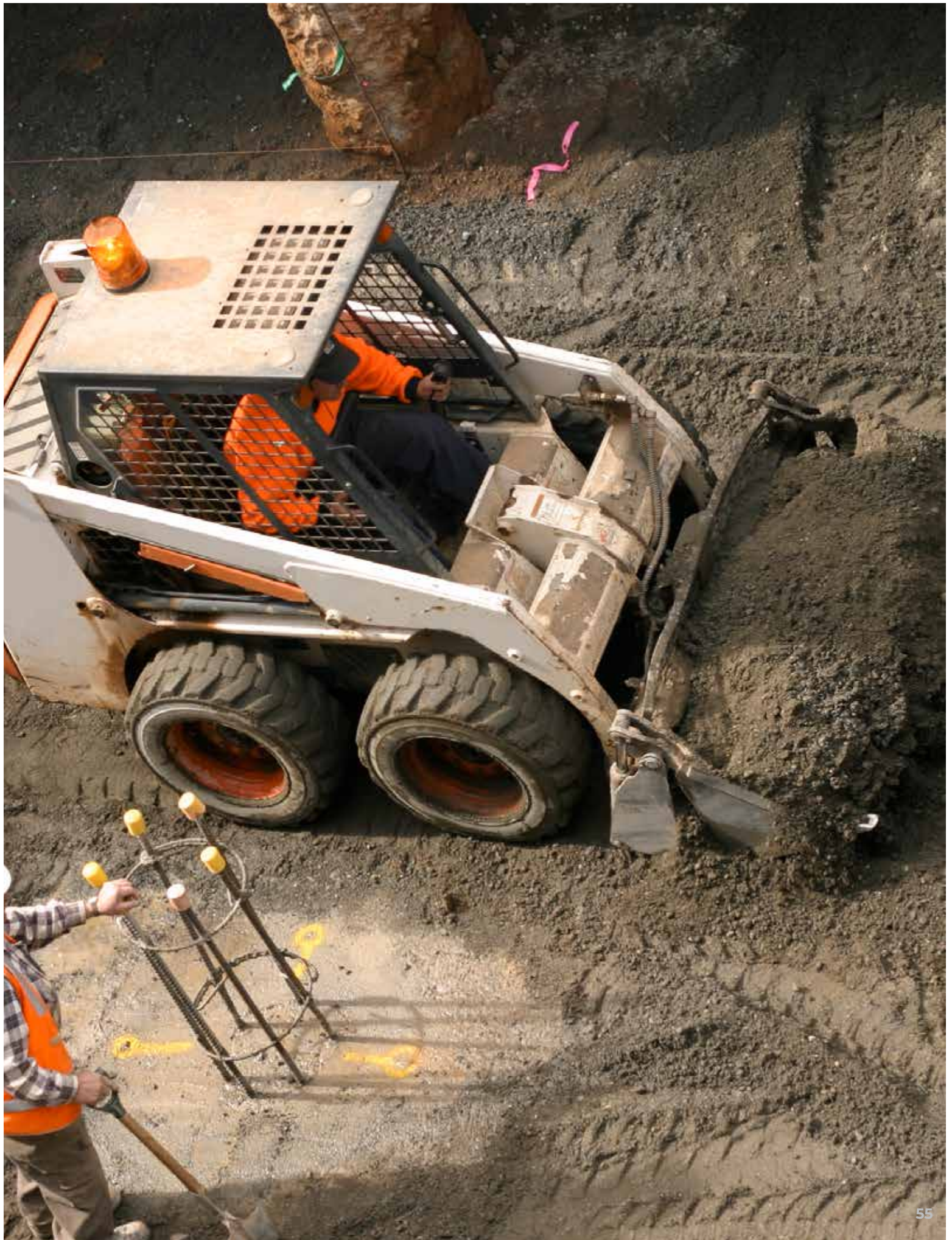
Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Construction labourer
- Flagman/woman
- Asphalt spreader
- Demolition worker
- Roofer helper







# Construction Millwright

**Number of Hours:** 7280 hours

**Number of School Sessions:** 3 x 8 weeks (720 hours)

**Trade Code:** 426A

**NOC** 72400

**Construction Sector**

## Description

- Reads blueprints, diagrams and schematic drawings to determine work procedures
- Installs, aligns, dismantles and moves stationary industrial machinery and mechanical equipment such as pumps, fans, tanks, conveyors, furnaces and generators according to layout plans using hand and power tools
- Operates hoisting and lifting devices such as cranes, jacks and tractors to position machinery and parts during the installation, set-up and repair of machinery
- Inspects and examines machinery and equipment to detect and investigate irregularities and malfunctions
- Installs, troubleshoots and maintains power transmission, vacuum, hydraulic and pneumatic systems, and programmable logic controls
- Adjusts machinery and repairs or replaces defective parts
- Operates machine tools such as lathes and grinders to fabricate parts required during overhaul, maintenance or set-up of machinery
- Constructs foundations for machinery or direct other workers to construct foundations
- Assembles machinery and equipment prior to installation using hand and power tools and welding equipment

## Personal Qualities

- You are able to work indoors with noise, vibrations and other hazards that are common to the job
- You enjoy working to close and exacting tolerances
- You have the stamina to be on your feet for long periods of time
- You like to keep up with changing technology
- You like to travel to various job locations

## Career Opportunities

- Millwrighting contractors are the main source of employment in the trade and have contracts in all industries (e.g., nuclear, automotive, and steel)
- Construction millwrights are employed by construction millwrighting contractors
- Some construction millwrights begin their career in construction and eventually move to the industrial side of the trade

## Minimum Academic Entry Level for Apprenticeship Registration

- The minimum entry for apprenticeship is Grade 10 however; many employers may require Grade 12
- Completion of a 4-year apprenticeship program at 2,000 hours per year
- If you have completed 8,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

George Brown College    Conestoga College  
Mohawk College            Sheridan College

Levels 1 and 2 are common with 443A Industrial Mechanic Millwright. For common core levels, check listings under the other trade for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

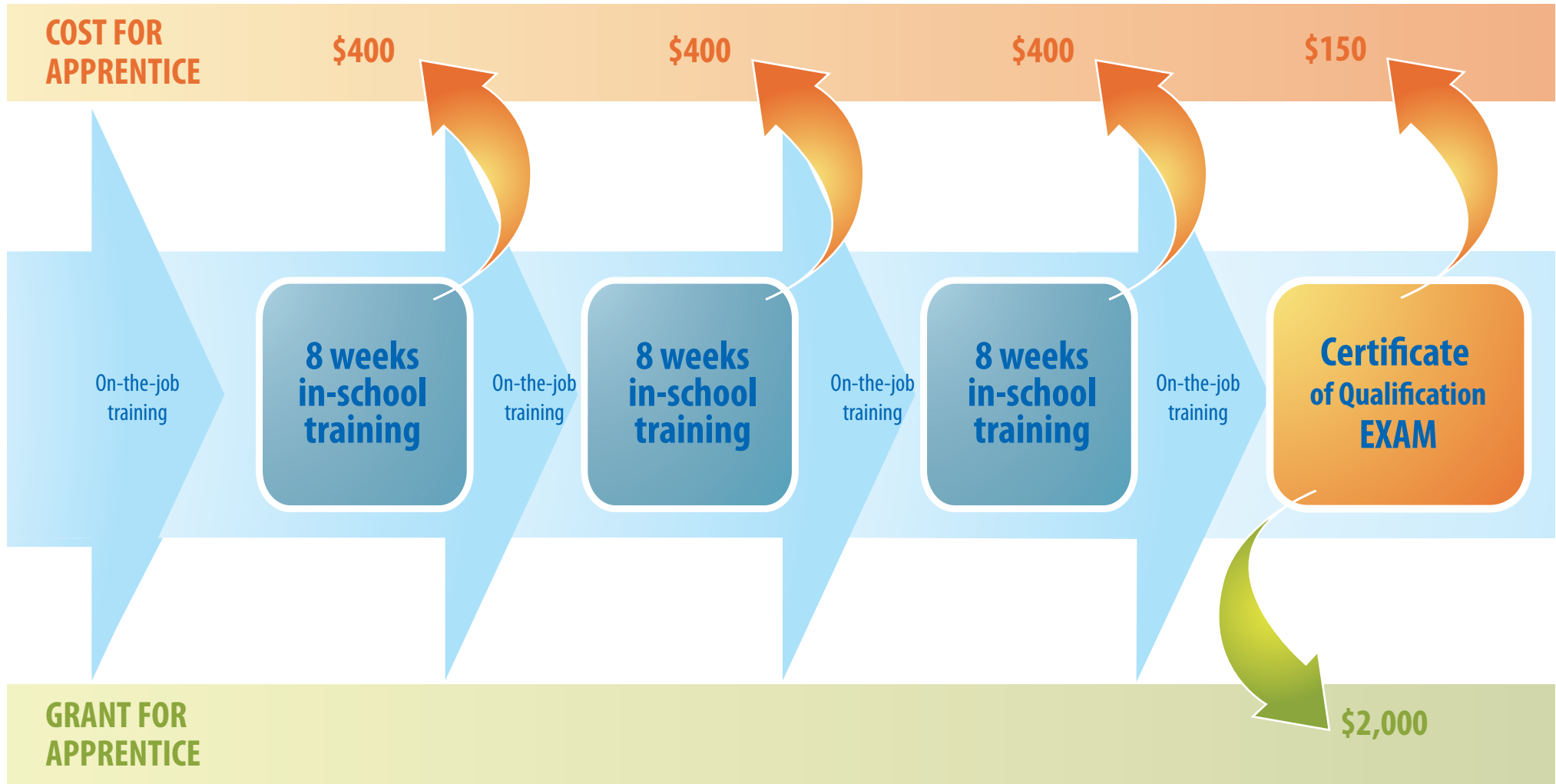
## Unofficial Ways of Referring to This Trade

- Plant shutdown crew
- Plant equipment mechanic
- Mobile mechanic
- Maintenance millwright

# Construction Millwright

Total training hours (on-the-job + in-school training) = 8,000

426A



A construction millwright provides a mobile service and the work may be performed on equipment away from the address of their own employer.

# Cook

**Number of Hours:** 5,280 hours  
**Number of School Sessions:** 2 x 12 weeks (720 hours)  
**Red Seal Trade**

**Trade Code:** 415A  
**NOC** 63200  
**Service Sector**

## Description

- Carves cooked meats, poultry, fish and game
- Prepares, assembles and cooks complete breakfasts, short order grill, simple desserts and vegetables
- Has a working knowledge of table service, soups and sauces, salads and dressings, weights and measures, hygiene, equipment handling, sanitation, safety and equipment
- Prepares complete meals, desserts, pastries, salad dressing, hot and cold buffet, baked foods, soups and sauces, sandwiches, simple salads and non-alcoholic beverages
- Has knowledge of stock controlling, receiving, issuing, menu planning and food costs and purchasing

## Personal Qualities

- You are safety conscious
- You care about personal hygiene
- You have the stamina to be on your feet for long periods of time
- You can multi-task
- You are willing to work weekends, holidays and various shifts
- You enjoy making and/or creating things

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

- Cooks are employed in restaurants, hotels, hospitals, other health care institutions, educational institutions, tourist resorts, summer camps and other establishments
- Some cooks own their own restaurants
- With additional training and experience, some cooks become chefs

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Completion of a 5,280-hour apprenticeship will be required
- If you have completed 6,000 hours of on-the-job experience/training and have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

George Brown College	St. Lawrence College
Conestoga College	Fanshawe College
Lambton College	St. Clair College
Georgian College	Humber College
Sault College	Stratford Chefs School
Durham College	Niagara College
Algonquin College	Canadore College
Confederation College	

Level 1 is common with 415B Assistant Cook. For common core levels, check listings under the other trade for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

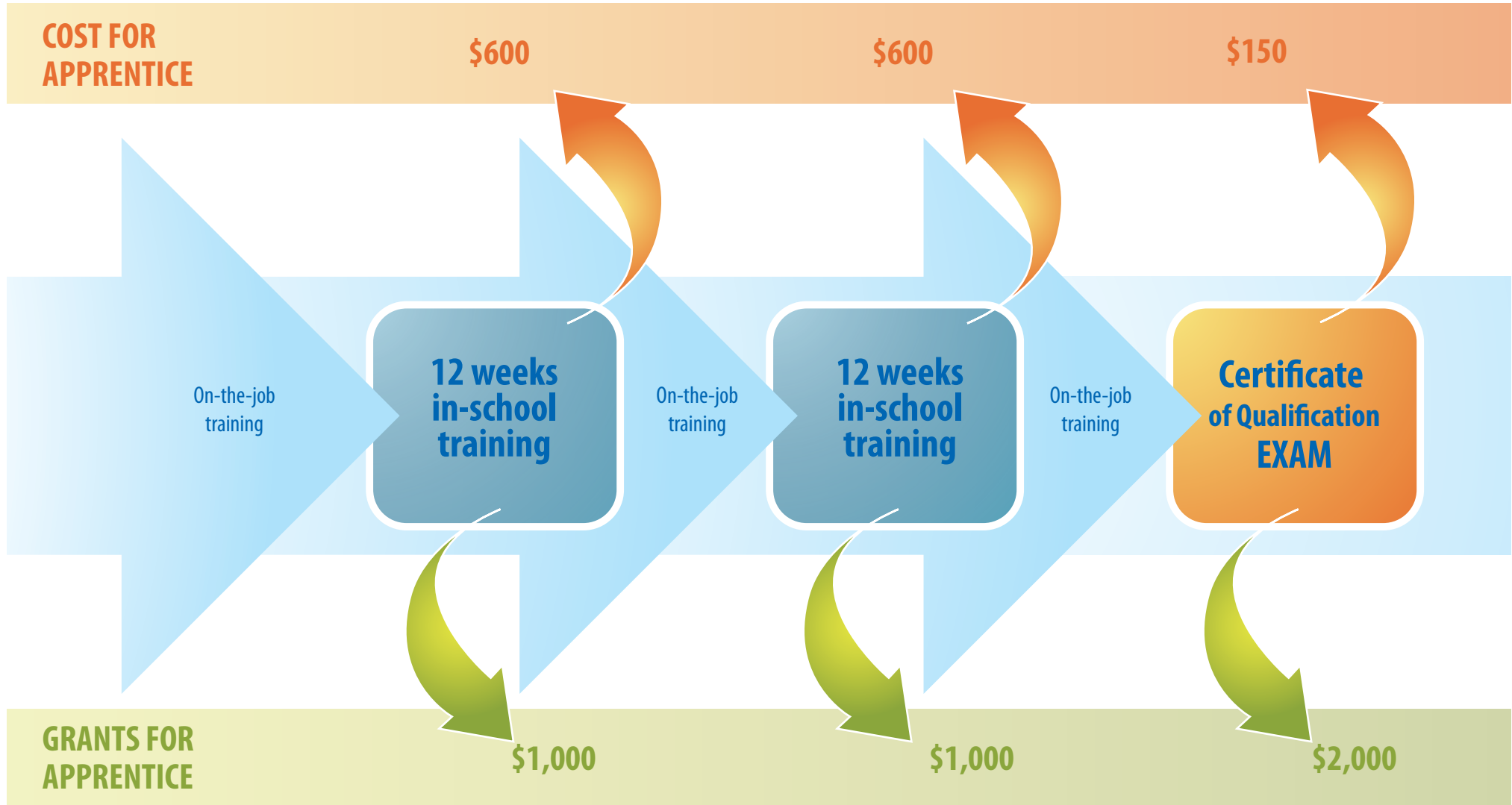
Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Dietary cook
- First cook
- Grill cook
- Journeyperson cook
- Licensed cook
- Short order cook

# Cook

Total training hours (on-the-job + in-school training) = 6,000





# Developmental Services Worker

**Number of Hours:** 3,720 hours  
**Number of School Sessions:** 1 x 26 weeks (780 hours)

**Trade Code:** 620D  
**NOC** 42201  
**Service Sector**

## Description

- Supports individuals who have a developmental disability to enhance their ability to function within all aspects of community living
- Completes and maintains client history and background forms
- Participates in the development and implementation of person directed plans
- Supports individuals to develop and maintain relationships within the family and community
- Manages individual medication
- Develops and applies crisis intervention strategies
- Is responsible for modeling and promoting a healthy lifestyle and maintaining a safe environment

## Personal Qualities

- You enjoy working with others
- You are cooperative
- You enjoy helping people
- You are able to sit for long periods of time
- You enjoy developing and implementing plans
- You are able to use computers and other technologies
- You have strong communication skills

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

- Many developmental services workers work for school boards, group homes or in private homes
- Some workers may be employed by the government and/or community agencies

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Completion of 3,720-hour apprenticeship program is required

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Conestoga College	Fanshawe College
St. Clair College	Humber College
Mohawk College	Collège Boréal
Georgian – Orillia	Loyalist

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

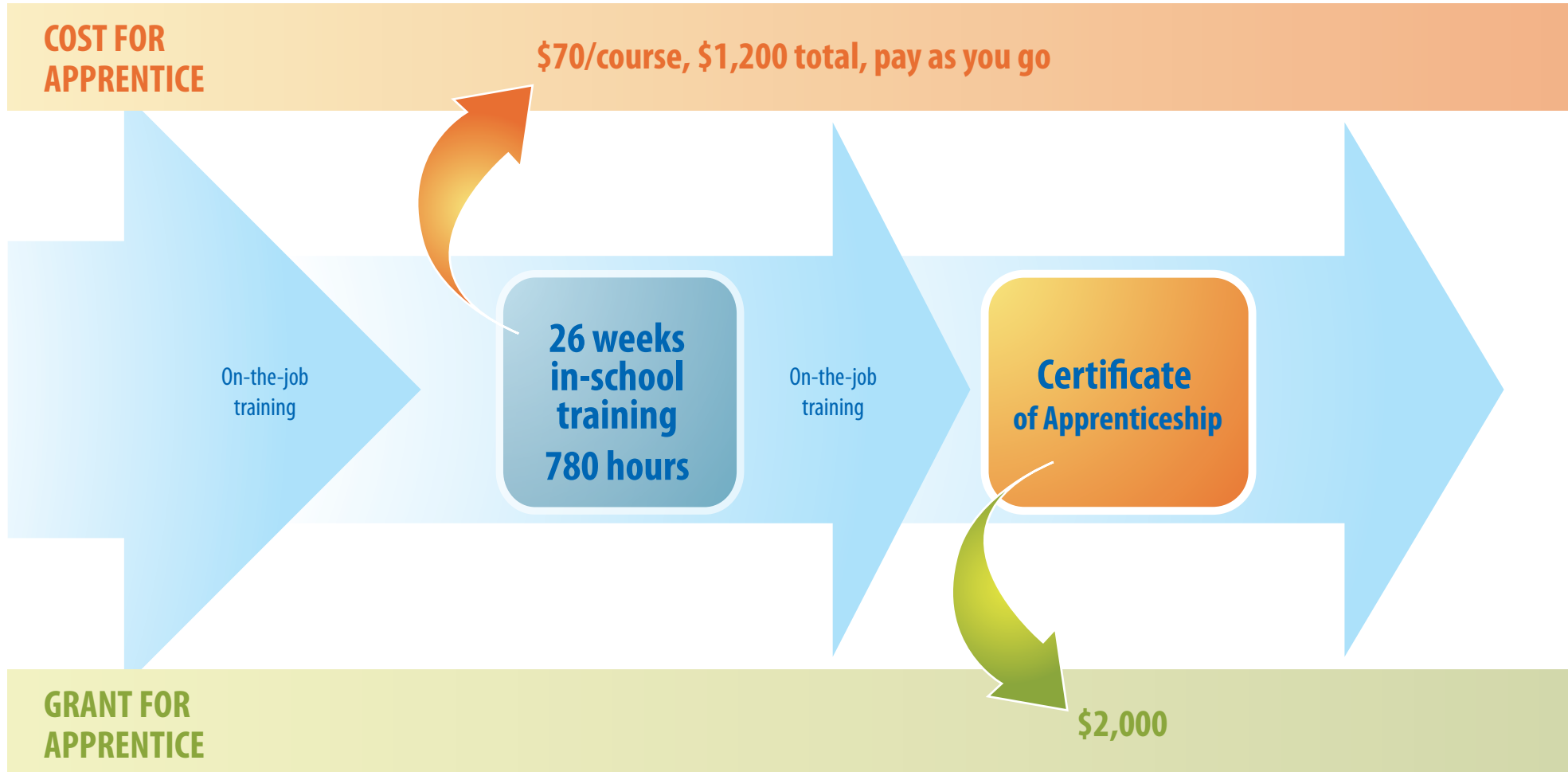
- Outreach worker
- Social services worker
- Veteran services officer
- Child and youth worker
- Addictions worker
- Life skills instructor

NON-COMPULSORY

# Developmental Services Worker

Total training hours (on-the-job + in-school training) = 4,500

620D



Upon completion of the subject-matter apprenticeship classes, on-the-job hours and employer approval, the apprentice is granted a Developmental Services Worker Certificate of Apprenticeship. A full Developmental Services Worker diploma may be obtained with additional credits as specified by the college and by continuing with the same college.

# Drywall, Acoustic and Lathing Applicator

**Number of Hours:** 4,800 hours  
**Number of School Sessions:** 2 x 8 weeks (600 hours)  
**Red Seal Trade**

**Trade Code:** 451A  
**NOC** 73102  
**Construction Sector**

## Description

- Reads, interprets, and applies blueprints and specifications for job layout
- Erects exterior structural steel studs and sheathing
- Erects light gauge residential steel studs, sheathing and demountable partitions
- Applies thermal insulation, sound insulation, and fire stopping
- Installs partition walls and furring and shaft wall systems
- Installs lath, drywall, moulded and cast forms and ceiling systems

## Personal Qualities

- You enjoy applying yourself to a hands-on project
- You tend to be conventional, detail-oriented, organized
- You like working in a structured environment

## Career Opportunities

Drywall, acoustic and lathing applicators work for construction companies, plastering, drywalling and lathing contractors, or are self-employed

## Minimum Academic Entry Level for Apprenticeship Registration

Minimum entry for apprenticeship is Grade 10, or currently participating in high school co-op

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Carpenters Local 1669  
Interior Finishing Systems Ottawa Walls & Ceilings Training Centre  
United Brotherhood of Carpenters & Joiners of America Local 18

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

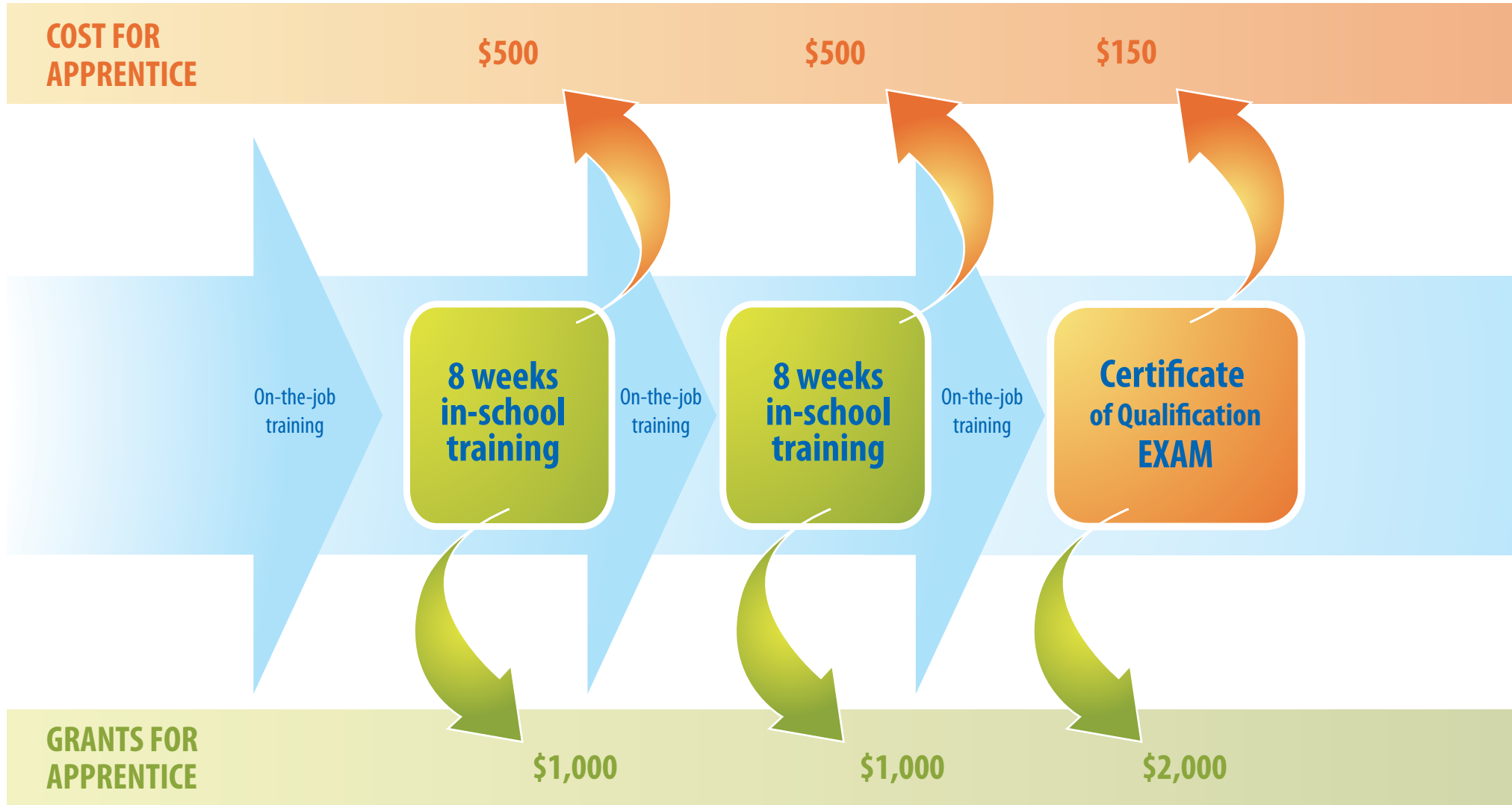
## Unofficial Ways of Referring to This Trade

- Lather
- Drywall taper
- Acoustical ceiling installer
- Sheetrock applicator
- Wood lather

# Drywall, Acoustic and Lathing Applicator

Total training hours (on-the-job + in-school training) = 5,400

451A



# Drywall Finisher and Plasterer

**Number of Hours:** 4,920 hours  
**Number of School Sessions:** 2 x 8 weeks (480 hours)  
**Red Seal Trade**

**Trade Code:** 453A  
**NOC** 73102  
**Construction Sector**

## Description

- Tapes and finishes wallboard (drywall)
- Applies tape to fire rate and gas proof walls
- Installs beads to protect corners
- Fills joints and imperfections
- Mixes and applies compound and sands to create a smooth surface
- Textures concrete, prepared walls and ceilings
- Applies coats of plaster to foundation materials
- Wires mesh and installs ornaments

## Personal Qualities

- You enjoy applying yourself to a hands-on project
- You tend to be conventional, detail-oriented, organized
- You like working in a structured environment

## Career Opportunities

Drywall finishers and plasterers work for construction companies, plastering, drywalling and lathing contractors, or are self-employed

## Minimum Academic Entry Level for Apprenticeship Registration

Minimum entry Grade 10 or currently participating in high school co-op

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Contact the MLITSD for postsecondary training delivery agent information

Interior Finishing Systems – Woodbridge

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

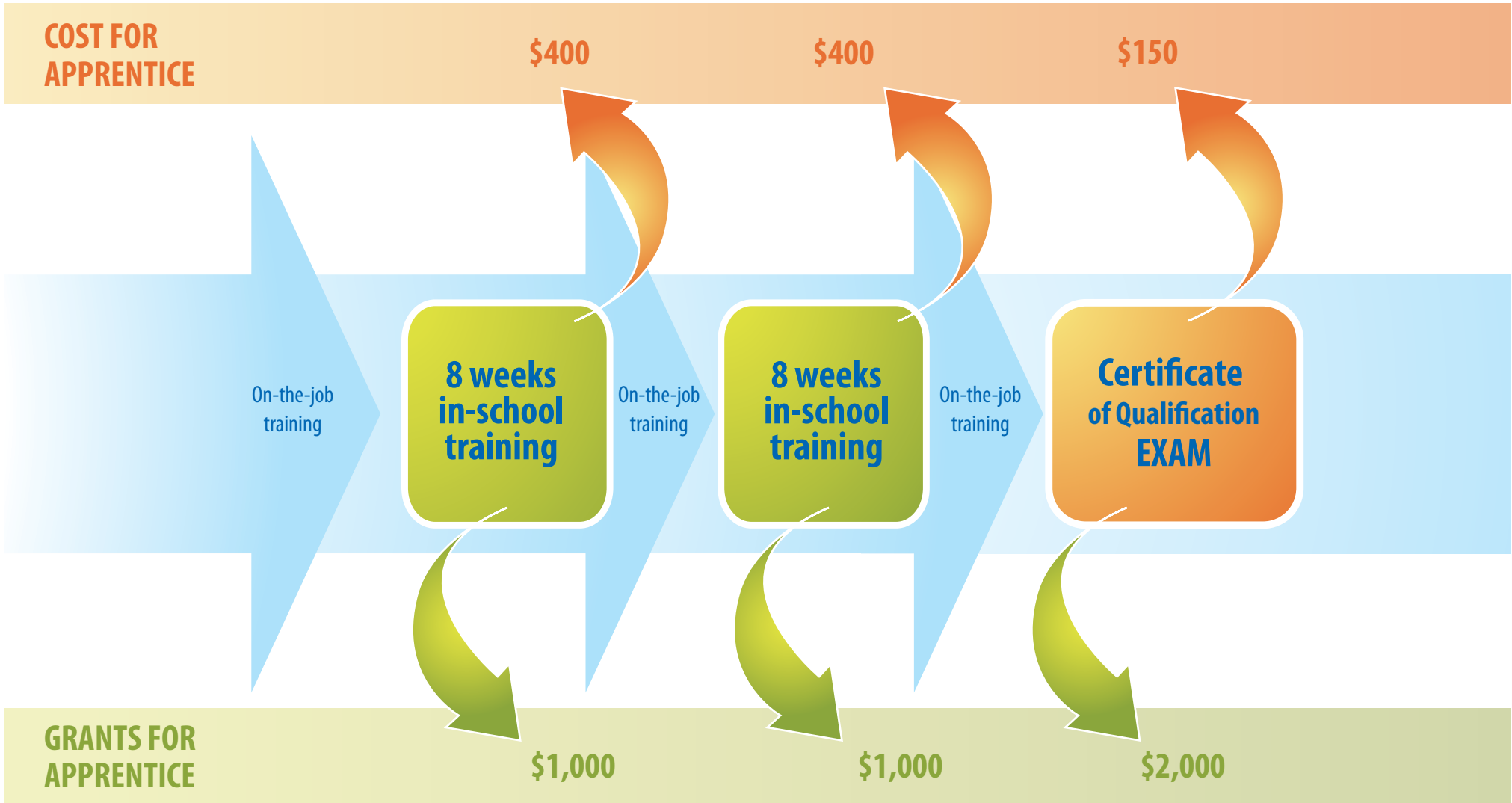
Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)



# Drywall Finisher and Plasterer

Total training hours (on-the-job + in-school training) = 5,400

453A



# Educational Assistant

**Number of Hours:** 2,268 hours  
**Number of School Sessions:** 1 x 14.4 weeks (432 hours)

**Trade Code:** 620E  
**NOC** 43100  
**Service Sector**

## Description

- Works with the educational team and the family to deliver program goals and maintain the flow of information
- Assists with the implementation of the education plan
- Communicates with resource personnel
- Maintains a communication log/record
- Presents information verbally and in writing
- Applies intervention strategies by applying behaviour and crisis management techniques, setting limits, using body language techniques, assisting with applying crisis intervention strategies and restoring a safe environment
- Creates a climate for learning by encouraging student's responsibility, modeling social skills
- Creates optimal learning opportunities, promotes peer acceptance and fosters community relations
- Assists with life skills and living skills development
- Supports the student and the use of specialized equipment
- Demonstrates safe work practices and techniques by maintaining a safe environment via safety inspections, emergency procedures, crisis intervention and physical restraint techniques
- Uses proper lifting techniques and lifting devices
- Practices professionalism

## Personal Qualities

- You like working with young people
- You are in good physical condition and are able to stoop and lift children
- You have the emotional stamina to give of yourself
- You know how to manage stress
- You are well organized and have a high energy level
- You are safety conscious
- You can multi-task

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

The main employers of educational assistants are school boards and centres for exceptional children

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Completion of a 2,268-hour apprenticeship program is required
- Educational assistants work within legislative parameters including the Education Act, the Ontario Human Rights Code, the Child and Family Service Act, the Young Offenders Act, the Canadian Charter of Rights and Freedoms and the Freedom of Information/Protection of Privacy Act

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

George Brown College  
Collège Boréal  
Georgian College

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

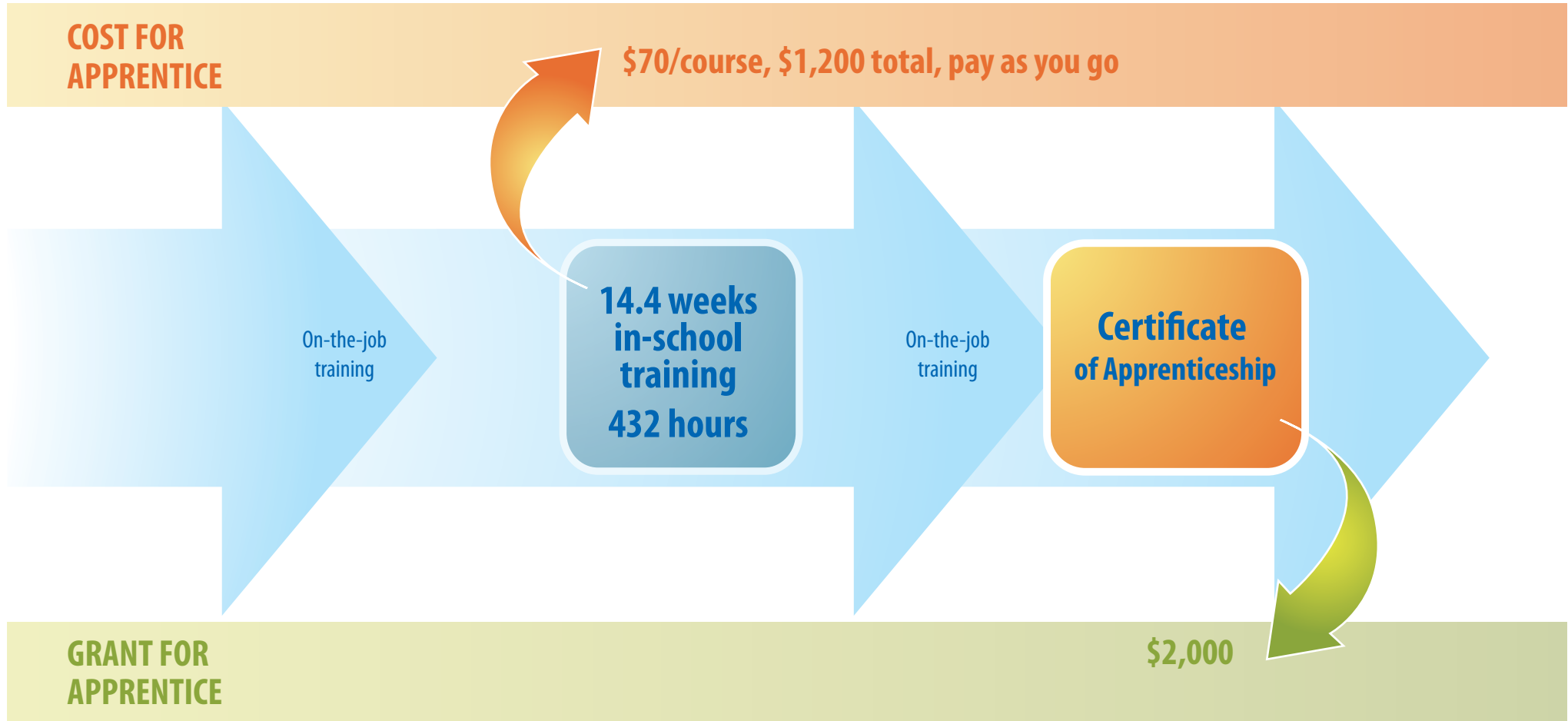
- Teachers' aide
- Child-care worker assistant
- Early childhood educator (ECE)
- Preschool helper
- Child care worker – daycare
- Daycare helper

NON-COMPULSORY

# Educational Assistant

Total training hours (on-the-job + in-school training) = 2,700

620E



Upon completion of the subject-matter apprenticeship classes, on-the-job hours and employer approval, the apprentice is granted an Educational Assistant Certificate of Apprenticeship. A full Educational Assistant diploma may be obtained with additional credits as specified by the college and by continuing with the same college.

# Electrician – Construction and Maintenance

**Number of Hours:** 8,160 hours

**Number of School Sessions:** 1 x 8 weeks, 2 x 10 weeks (840 hours)

**Compulsory Trade/Red Seal Trade**

**Trade Code:** 309A

**NOC** 72200

**Construction Sector**

## Description

- Reads and interprets drawings, circuit diagrams and electrical code specifications to determine wiring layouts for new or existing installations; pulls wire through conduits and through holes in walls and floors
- Installs, replaces and repairs lighting fixtures and electrical control and distribution equipment, such as switches, relays and circuit breaker panels
- Splices, joins and connects wire to fixtures and components to form circuits
- Tests continuity of circuits using test equipment to ensure compatibility and safety of system following installation, replacement or repair
- Troubleshoots and isolates faults in electrical and electronic systems and removes and replaces faulty components
- Connects electrical power to sound and visual communication equipment, signaling devices and heating and cooling systems
- Conducts preventive maintenance programs and keeps maintenance records

## Personal Qualities

- You are able to work in cramped areas or at considerable heights, if required
- You are able to work outside at various times of the year in a range of environmental conditions
- You have the stamina to be on your feet for long periods of time
- You are extremely safety conscious
- You are in good physical condition and are able to carry materials

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

- Small, medium and large companies (including electrical contractors) employ electricians on a variety of projects in the residential, commercial and industrial sectors
- Many electricians have their own business

## Minimum Academic Entry Level for Apprenticeship Registration

- The minimum entry for apprenticeship is Grade 10, however many employers and unions want at least Grade 12
- Completion of a 5-year apprenticeship program at 1,800 hours per year

- If you have completed 9,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Durham College	Algonquin College
La Cité Collégiale	Georgian College
Confederation College	Conestoga College
Fleming College	Mohawk College
Humber College	Northern College
St. Clair College	St. Lawrence College
Fanshawe College	George Brown College
Sheridan College	Northern College
Lambton College	Sault College
Cambrian College	Canadore College
Centennial College	Collège Boréal
Niagara College	

Levels 1 and 2 are common with 309C Electrician – Domestic and Rural; 442A Industrial Electrician. For common core levels, check listings under the other trades for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

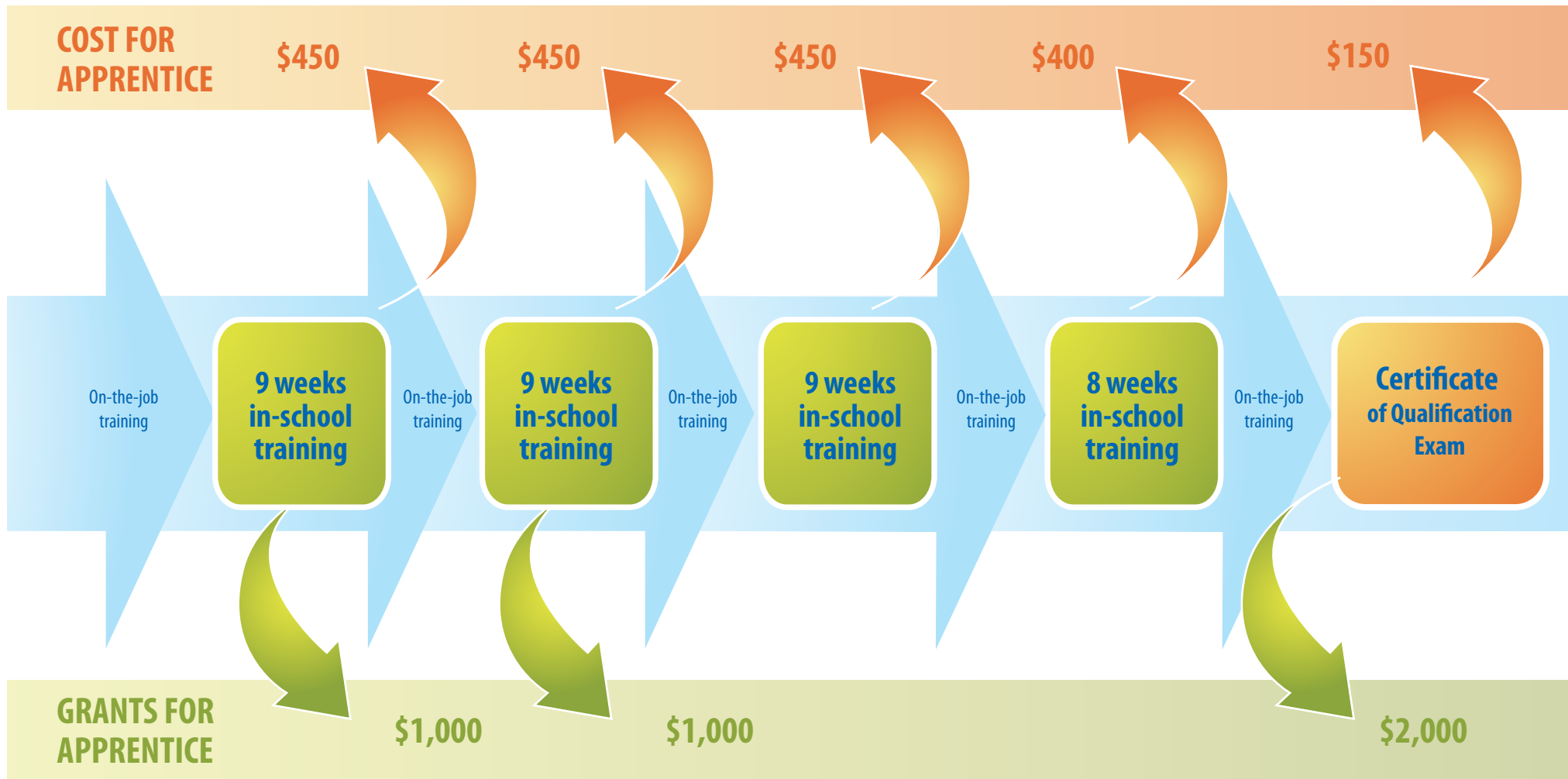
## Unofficial Ways of Referring to This Trade

- Apprentice electrician
- Construction electrician

# Electrician – Construction and Maintenance

Total training hours (on-the-job + in-school training) = 9,210

309A





# Electrician – Domestic and Rural

**Number of Hours:** 6,660 hours

**Number of School Sessions:** 1 x 8 weeks, 1 x 10 weeks (540 hours)

**Compulsory Trade**

**Trade Code:** 309C

**NOC** 72200

**Construction Sector**

## Description

- Reads and interprets drawings, circuit diagrams and electrical code specifications to determine wiring layouts for new or existing installations; pull wire through conduits and through holes in walls and floors
- Installs brackets and hangers to support electrical equipment
- Installs, replaces and repairs lighting fixtures and electrical control and distribution equipment, such as switches, relays and circuit breaker panels
- Splices, joins and connects wire to fixtures and components to form circuits
- Tests continuity of circuits using test equipment to ensure compatibility and safety of system following installation, replacement or repair
- Troubleshoots and isolates faults in electrical and electronic systems and removes and replaces faulty components
- Connects electrical power to sound and visual communication equipment, signaling devices and heating and cooling systems

## Personal Qualities

- You are able to work in cramped areas or at considerable heights, if required
- You are able to work outside at various times of the year
- You have the stamina to be on your feet for long periods of time
- You are extremely safety conscious
- You are in good physical condition and are able to carry materials

Review essential skills profile for additional skills

[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities and Other Details

- Small, medium and large companies (including electrical contractors) employ electricians on a variety of projects
- Most electricians work in residential construction
- Electricians do union and non-union work

## Minimum Academic Entry Level for Apprenticeship Registration

- The minimum entry for apprenticeship is Grade 10 however; many employers may require Grade 12
- Completion of a 4-year apprenticeship program at 1,800 hours per year
- If you have completed 7,200 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Conestoga College  
Sault College

Mohawk College  
Sheridan College

Levels 1 and 2 are common with 309A Electrician – Construction and Maintenance; 442A Industrial Electrician. For common core levels, check listings under the other trades for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at

[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook

[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects

[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices

[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

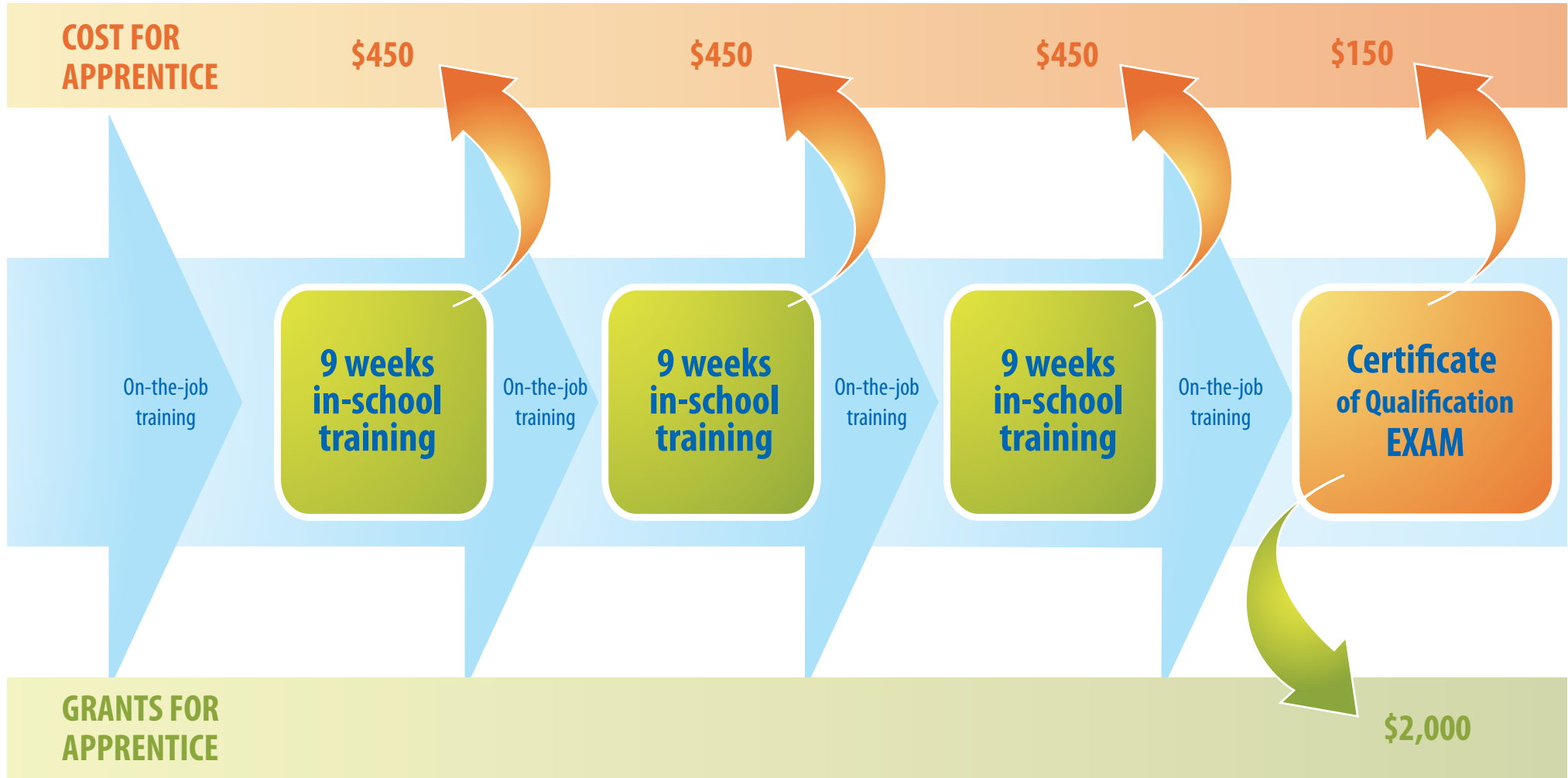
## Unofficial Ways of Referring to This Trade

- Subdivision electrician
- Construction electrician
- Boathouse electrician

# Electrician – Domestic and Rural

Total training hours (on-the-job + in-school training) = 7,470

309C



# Elevating Devices Mechanic

**Number of Hours:** 7,280 hours  
**Number of School Sessions:** 1 x 24 weeks (720 hours)

**Trade Code:** 636E  
**NOC** 72406  
**Industrial Sector**

## Description

- Uses a knowledge of various elevating devices including the electrical, hydraulic and mechanical systems involved
- Installs, inspects, maintains and repairs elevating devices including elevators, chair lifts, moving platforms, escalators and hoists
- Services elevators ranging from those using primitive technology to those equipped with modern microprocessors, if required
- Responds to emergency situations after hours, if required

## Personal Qualities

- You are very conscious of workplace safety
- You have good computer skills
- You have good analytical and problem-solving skills
- You are able to work at heights and in confined spaces

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

Most elevating devices mechanics are employed by companies that manufacture, install and service elevating devices

## Minimum Academic Entry Level for Apprenticeship Registration

- Completion of Grade 12 is required; courses in English, mathematics and technology may be helpful
- Completion of a 7,280-hour apprenticeship program is required
- Elevating devices mechanic is an unrestricted trade under the Apprenticeship and Certification Act, but certification in this trade is a compulsory requirement under the Technical Standards and Safety Act
- Apprentices/sponsors must contact the Technical Standards and Safety Authority (TSSA) to determine training and certification requirements. EDM-T Certificate (issued by TSSA)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Durham College  
Mohawk College  
Canadian Elevator Industry Educational Program

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

## Financial Incentives for employers sponsoring apprentices

[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

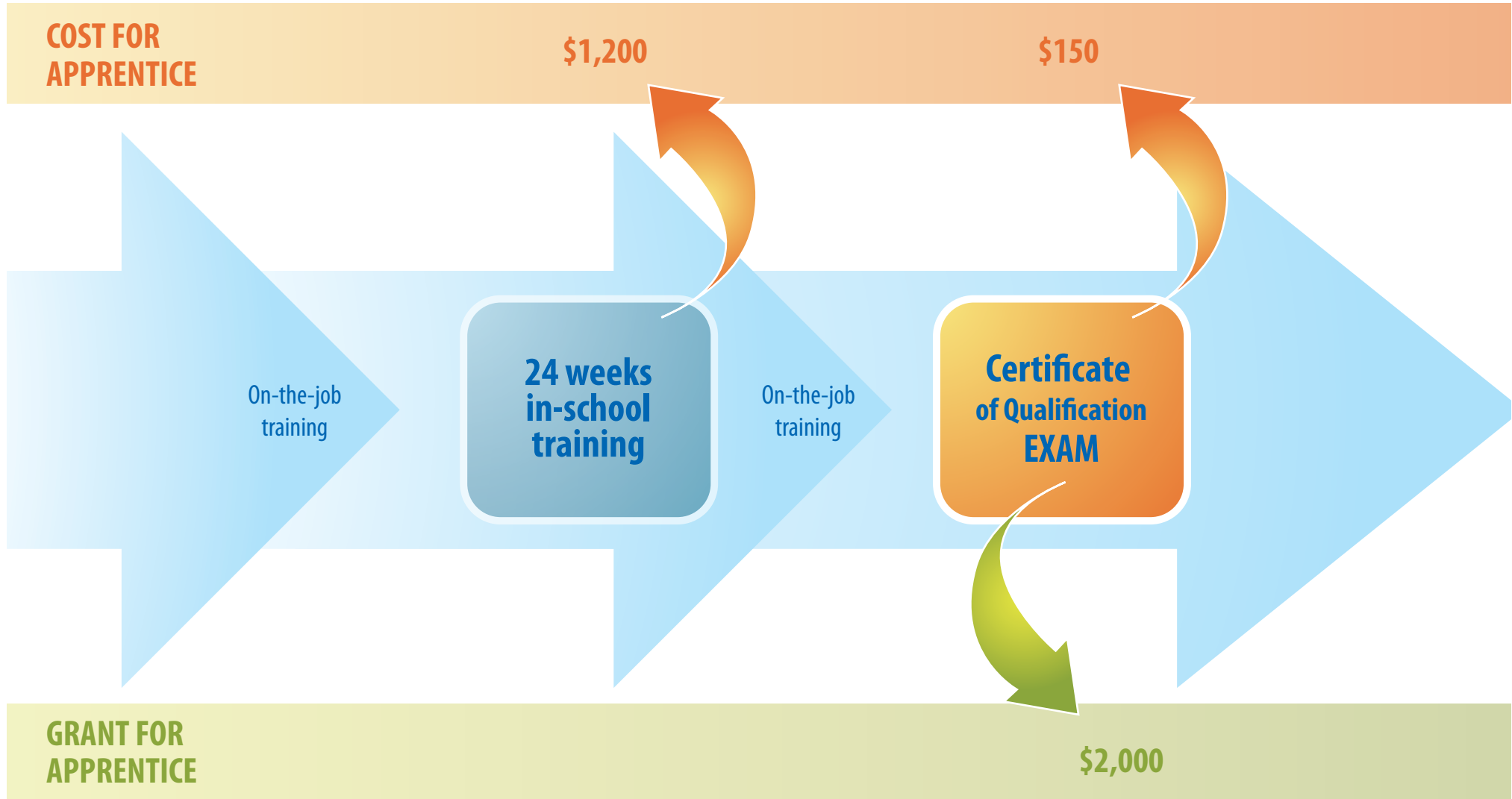
- Escalator repairer
- Elevator constructor
- Elevator mechanic

NON-COMPULSORY

# Elevating Devices Mechanic

Total training hours (on-the-job + in-school training) = 8,000

636E



Professional exam provided by the Technical Safety Standards Authority (TSSA).

# Entertainment Industry Power Technician

**Number of Hours:** 4,520 hours  
**Number of School Sessions:** 4 x 3 weeks (480 hours)

**Trade Code:** 269E  
**NOC** 52119  
**Industrial Sector**

## Description

- Demonstrates an understanding in temporary power distribution systems for the entertainment industry, including film, television, live performance, tradeshow, special events and carnivals
- Plans proposed film, television, live performance, tradeshow, special event and carnival layouts, installations and rigs from technical drawings, sketches and/or specifications
- Is responsible for the connection of plug-in devices to mobile generator sets and working on circuits limited to 400 amps and less than 750 volts
- Lays out and connects single-pin-based distribution and power distribution taps, including tees, single-pin multiple-connection devices, and multi-pin sub-distribution boxes
- Is responsible for installing rigging, set practicals and special effect lighting
- Fits, repairs and maintains luminaries and dimming systems, portable power distribution equipment, cables and mobile generator sets
- Is responsible for working on temporary installation up to, but not including, hardwire connection to the power systems of permanent buildings

## Personal Qualities

- You are able to work at varying heights
- You have strong problem-solving skills
- You enjoy working with your hands
- You are able to work independently but also possess the leadership skills to manage a crew if required
- You are safety conscious
- You are willing to engage in continuous learning to keep up with technological change and advancement

## Career Opportunities

- Entertainment industry power technicians may be employed by television and radio stations and networks, recording studios, film and video production companies, concert promoters and theatres or stage and dance companies
- Entertainment industry power technicians may also be self-employed

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Completion of a 4,520-hour apprenticeship program is required

- If you have completed 5,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

Toronto Motion Picture Technicians Training Centre

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journey person's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Lighting technician
- Settings shop foreperson
- Stage technician
- Theatre technician





# Exterior Insulated Finish Systems Mechanic

**Number of Hours:** 5,400 hours

**Number of School Sessions:** 1 x 400 hours, (usually 30 hours/week)

**Trade Code:** 445A

**NOC** 72321

**Construction Sector**

## Description

Installs building systems that integrate a resinous exterior cladding with a continuous layer of insulation on the exterior of a building or structure by:

- preparing substrates
- selecting and applying barriers
- selecting and applying adhesive applications and
- mechanical attachments
- installing rigid insulation board
- preparing rigid insulation board for base coat application
- applying reinforcing mesh and base coat
- applying textured finish coat

## Personal Qualities

- You are able to maintaining good physical condition and work well with co-workers under deadlines
- You are able to maintaining up-to-date knowledge regarding work-related materials and regulations

## Career Opportunities and Other Details

- Exterior insulated finish systems mechanics are employed by contractors on construction or repair jobs; some may be union members
- These mechanics must expect seasonal work and periods of unemployment due to inclement weather but steady demand for work
- Typical employers include residential developers, building construction firms, construction and roofing contractors, and independent contractors

## Minimum Academic Entry Level for Apprenticeship Registration

Minimum entry for this apprenticeship is a Grade 12 diploma. The exception to this is if you are actively enrolled in high school cooperative education or an Adult Learning Centre with a co-op placement in this trade, and you have an employer willing to register you as an apprentice. Ask a guidance counsellor or your co-op teacher about the Ontario Youth Apprenticeship Program. The Ontario Youth Apprenticeship Program has no upper age limit.

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Interior Finishing Systems – Woodbridge

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects

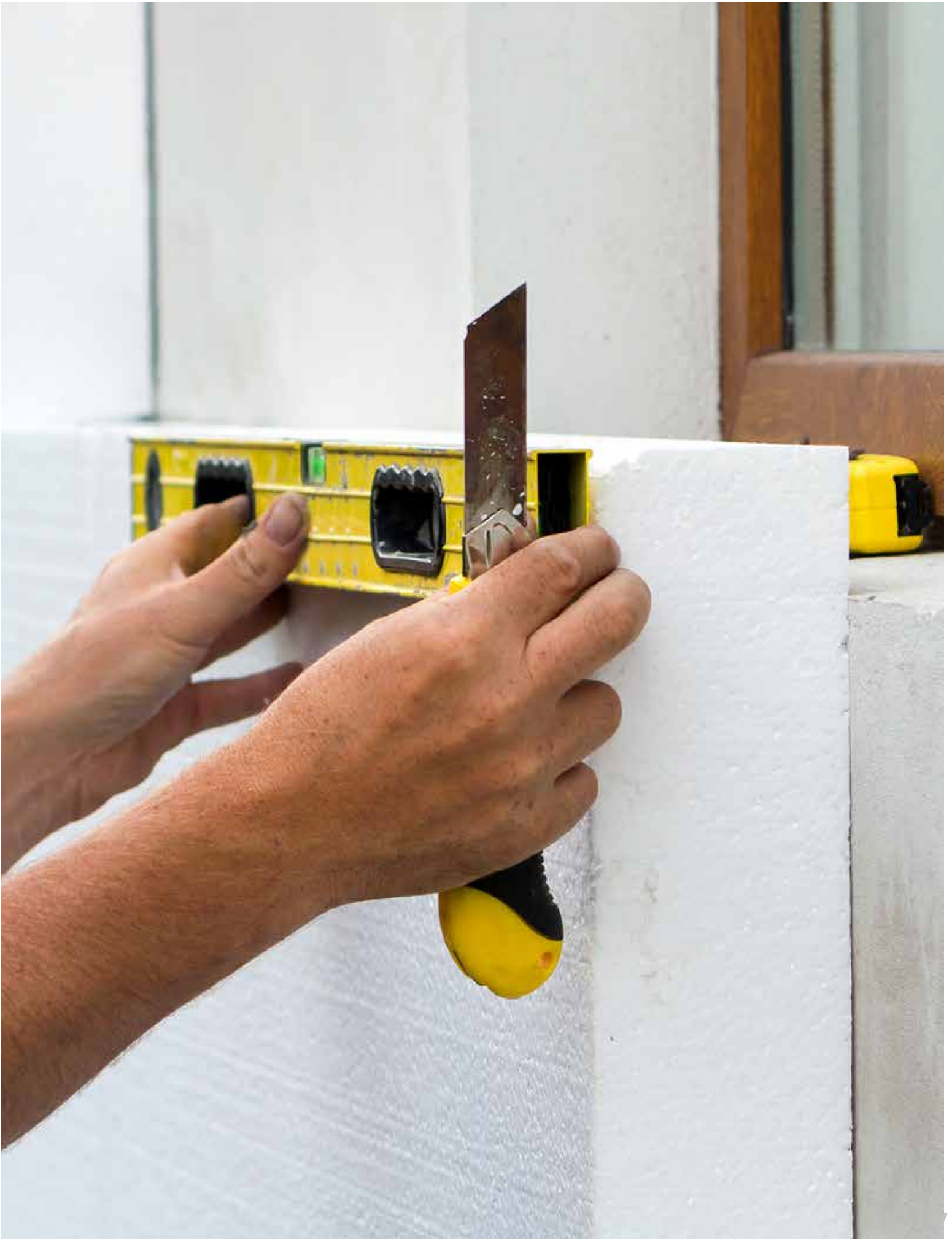
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices [www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)





# Facilities Mechanic

**Number of Hours:** 5,520 hours  
**Number of School Sessions:** 2 x 8 weeks (480 hours)

**Trade Code:** 255W  
**NOC** 92100  
**Industrial Sector**

## Description

- Operates and maintains hand and power tools and equipment as well as lifting devices and material handling equipment
- Checks and inspects fire safety equipment
- Inspects and maintains electrical systems, air conditioning systems, plumbing, water treatment systems, domestic appliances and laundry systems
- Inspects, maintains and troubleshoots heating equipment, ventilation systems and building (interior and exterior) envelope
- Performs ground maintenance

## Personal Qualities

- You are to work in cramped areas or on ladders, if required
- You are able to work outside part of the time
- You have the stamina to be on your feet for long periods of time
- You like doing maintenance duties
- You are extremely safety conscious

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

Facilities mechanics work for small, medium and large companies in the industrial, commercial, institutional or residential sectors or indirectly for those companies through contractors

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Completion of a 5,520-hour apprenticeship program is required
- If you have completed 6,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

St. Clair College

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

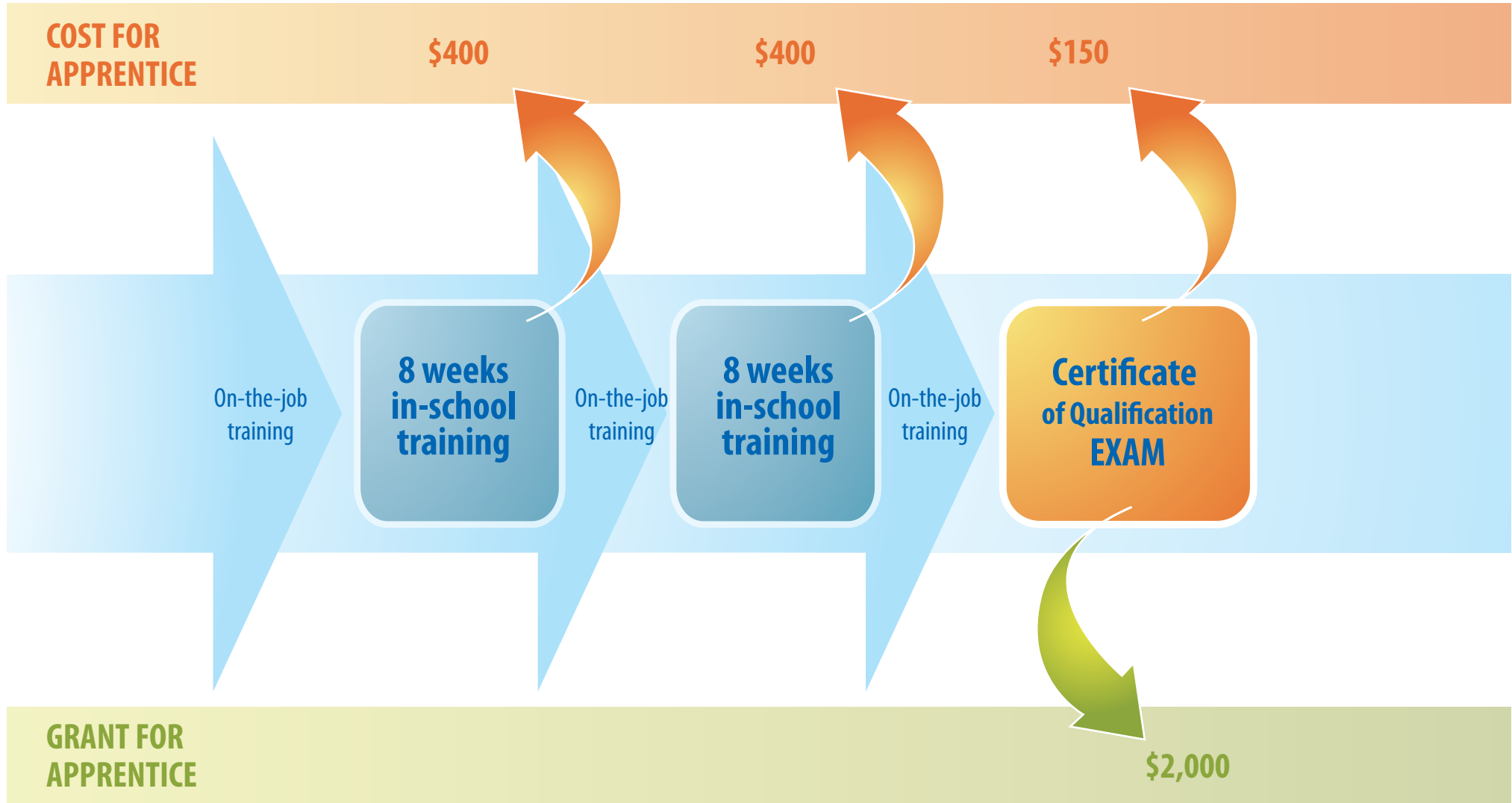
## Unofficial Ways of Referring to This Trade

- Building maintenance technician
- Facilities maintenance person
- Building mechanic

# Facilities Mechanic

Total training hours (on-the-job + in-school training) = 6,000

255W





# Floor Covering Installer

**Number of Hours:** 5,400 hours  
**Number of School Sessions:** 2 x 10 weeks (600 hours)  
**Red Seal Trade**

**Trade Code:** 448A  
**NOC** 73113  
**Construction Sector**

## Description

- Reads and interprets drawings and specifications to determine insulation requirements
- Selects the amount and type of insulation to be installed
- Measures and cuts insulating material to the required dimensions
- Applies, installs, repairs and maintains insulating material
- Installs fire-stopping insulation
- Applies metal and plastic finishes

## Personal Qualities

- You are careful and accurate, with an eye for detail
- You are able to follow instructions
- You are able to work well under pressure
- You are able to work well with others
- You are good at basic mathematics
- You are safety-conscious
- You are reasonably fit
- You have strong arms and a strong back
- You are able to work in dusty conditions and not suffer from respiratory diseases

## Career Opportunities and Other Details

- In Canada, approximately 600 people work in this occupation.
- Floor covering installers mainly work in the following sectors:
  - Construction: 84%
  - Other retail stores: 8%
- The distribution of full-time and part-time workers in this occupation is:
  - Full-time workers: 85% compared to 79% for all occupations
  - Part-time workers: 15% compared to 21% for all occupations
- 52% of floor covering installers work all year, while 48% work only part of the year, compared to 64% and 36% respectively among all occupations
- Those who worked only part of the year did so for an average of 35 weeks compared to 31 weeks for all occupations
- 51% of floor covering installers are self-employed compared to an average of 10% for all occupations

## Minimum Academic Entry Level for Apprenticeship Registration

Completion of Grade 10, or currently participating in high school co-op

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

College of Carpenters and Allied Trades Inc.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

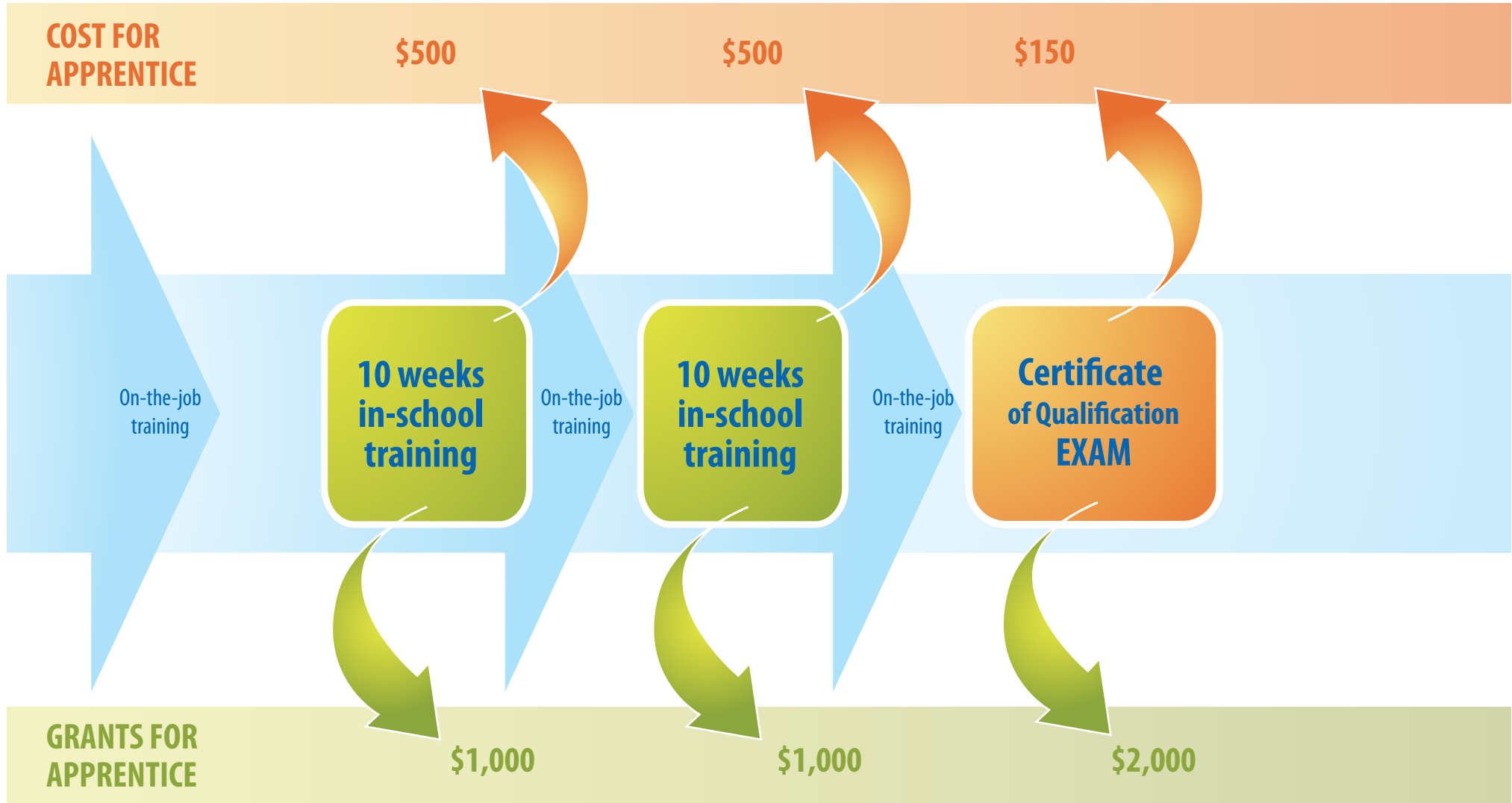
## Unofficial Ways of Referring to This Trade

- Carpet layer
- Floor covering installer apprentice
- Floor covering mechanic
- Resilient floor installer
- Rug installer
- Vinyl floor installer

NON-COMPULSORY

# Floor Covering Installer

Total training hours (on-the-job + in-school training) = 6,000



# General Carpenter

**Number of Hours:** 6,480 hours  
**Number of School Sessions:** 3 x 8 weeks (720 hours)  
**Red Seal Trade**

**Trade Code:** 403A  
**NOC** 72310  
**Construction Sector**

## Description

- Constructs, erects, installs, maintains and repairs structures and components of structures made of wood, wood-substitutes and other materials
- Does detailed work requiring high level of Skills (finish carpenter)
- Does framing and forming which require less skills (rough carpenter)
- Reads and interprets blueprints, drawings and sketches to determine specifications and calculate requirements
- Prepares layouts in conformance to building codes, using measuring tools
- Measures, cuts, shapes, assembles and joins materials
- Builds foundations, installs floor beams, lays sub flooring and erects walls and roof systems
- Fits and installs trim items such as doors, stairs, moulding and hardware

## Personal Qualities

- You are able to work in cramped areas or at considerable heights
- You are able to work outside at various times of the year and experience a considerable range of environmental conditions
- You are able to use your math skills in this trade
- You have the stamina to be on your feet for long periods of time
- You are in good physical condition to carry materials

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities and Other Details

- General carpenters work for small, medium and large companies in the residential, industrial, commercial and institutional sectors or indirectly for those companies through contractors
- Many carpenters own their own business
- A major part of carpentry work in the residential field is in renovations
- Carpentry work is unionized and non-unionized

## Minimum Academic Entry Level for Apprenticeship Registration

- The minimum entry for apprenticeship is Grade 10 however, many employers require Grade 12
- If you have completed 7,200 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Fleming College	George Brown College
Algonquin College	Cambrian College
Conestoga College	Confederation College
Fanshawe College	Georgian College
La Cité Collégiale	Lambton College
Mohawk College	St. Clair College
St. Lawrence College	Canadore College
Niagara College	
Carpenters Local 1669 Collège Boréal	
College of Carpenters and Allied Trades Inc.	

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

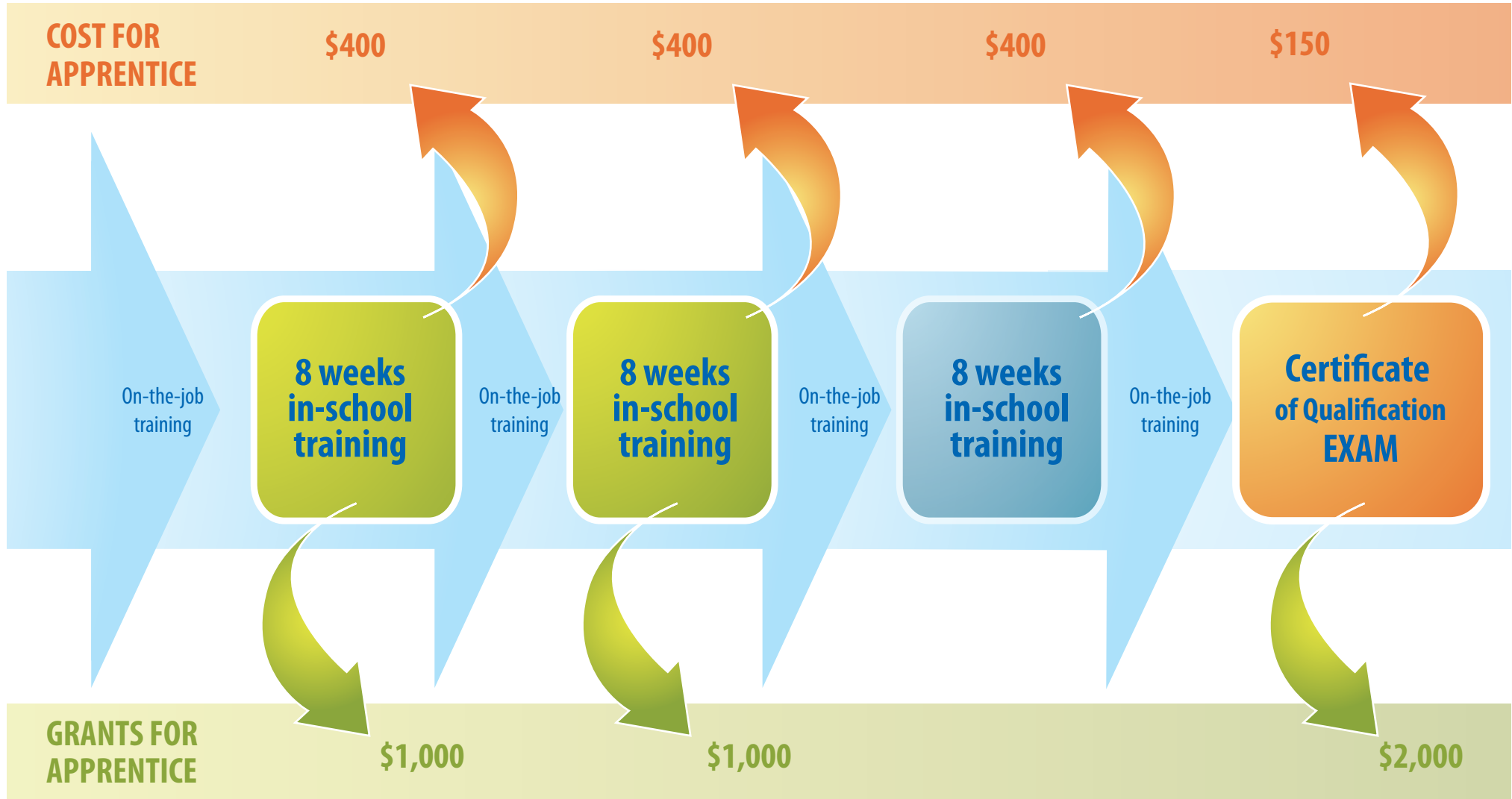
## Unofficial Ways of Referring to This Trade

- Finish carpenter
- Journeyperson carpenter
- Maintenance carpenter
- Renovation carpenter
- Rough carpenter

NON-COMPULSORY

# General Carpenter

Total training hours (on-the-job + in-school training) = 7,200



# General Machinist

**Number of Hours:** 7,280 hours  
**Number of School Sessions:** 3 x 8 weeks (720 hours)  
**Red Seal Trade**

**Trade Code:** 429A  
**NOC** 72100  
**Industrial Sector**

## Description

- Reads and interprets engineering drawings, blueprints, charts and tables or study sample parts to determine machining operation to be performed; plans best sequence of operations
- Computes dimensions and tolerances and measures and lays out work pieces
- Sets up, operates and maintains a variety of machine tools including computer numerically controlled (CNC) tools to perform precision, non-repetitive machining operations such as sawing, turning, milling, boring, planning, drilling, precision grinding and other operations
- Fits and assembles machined metal parts and subassemblies using hand and power tools
- Verifies dimensions of products for accuracy and conformance to specifications using precision measuring instruments
- May set up and program machine tools for use by machining tool operators

## Personal Qualities

- You can work indoors with noise, vibrations and other hazards that are common on the job
- You enjoy working to close and exacting tolerances
- You have the stamina to be on your feet for long periods of time
- You like to learn new things on a consistent basis
- You like working with computers

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

General machinists are typically employed in manufacturing plants

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Completion of a 7,280-hour apprenticeship program is required
- If you have completed 8,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Cambrian College	Conestoga College
Georgian College	Mohawk College
Niagara College	Sheridan College
St. Clair College	St. Lawrence College
Canadore College	Fanshawe College
Sault College	La Cité Collégiale
Six Nations Polytechnic	

Level 1, known as Precision Machining and Tooling Common Core, is common with 430A Tool and Die Maker; 431A Mould Maker; 443A Pattern Maker; 430M Machine Tool Builder and Integrator; 630T Tool/Tooling Maker. For common core levels, check listings under the other trades for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

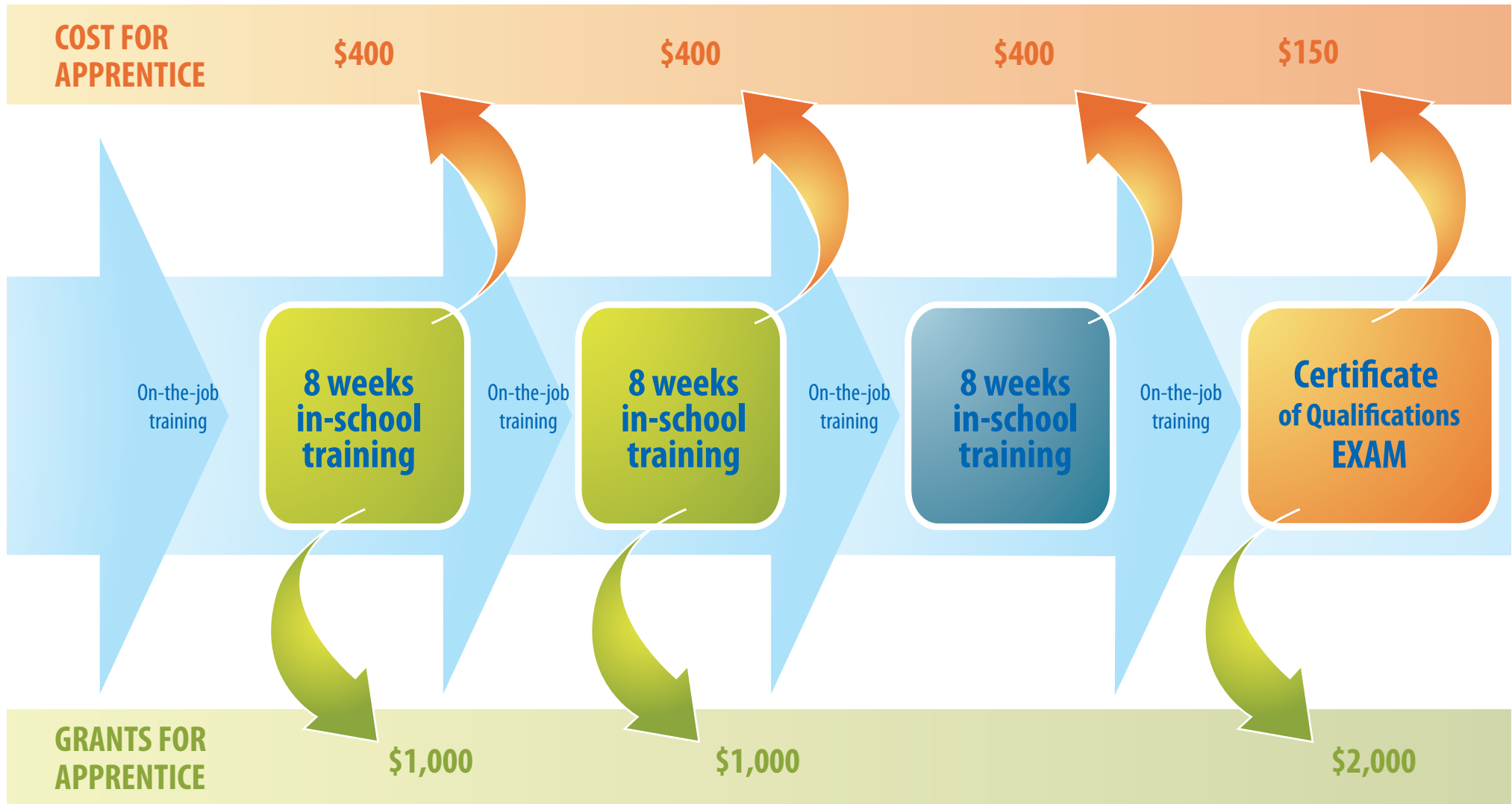
## Unofficial Ways of Referring to This Trade

- Automotive machinist
- Aviation machinist
- Machine shop inspector
- Machined parts inspector



# General Machinist

Total training hours (on-the-job + in-school training) = 8,000



# Hairstylist

**Number of Hours:** 3,020 hours  
**Number of School Sessions:** 2 x 8 weeks (480 hours)  
**Compulsory Trade**

**Trade Code:** 332A  
**NOC** 63210  
**Service Sector**

## Description

- Consults with the client regarding hairstyle preferences that are compatible with their physical features
- Analyzes hair and scalp condition and provides basic treatment or advice on beauty care treatments for scalp and hair
- Shampoos and rinses hair
- Cuts, trims, tapers and styles hair
- Uses permanent wave solutions
- Straightens or waves hair
- Applies bleach, tints, dyes or rinses to colour, frost or streak, lighten and tone hair
- Works with wigs, hairpieces and extensions
- May train or supervise other hairstylists and hairstylist apprentices

## Personal Qualities

- You have the stamina to stand on your feet for long periods of time
- You have tact and diplomacy and can handle very demanding clients
- You like to talk with and listen to clients
- You are able to be exposed to hairstyling chemicals

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

- Hairstylists are employed in hairstyling chains or private shops and may work in establishments in malls or major department stores
- Many hairstylists own their own shops, while others rent chairs from another shop owner

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Completion of a 3,020-hour apprenticeship for a regular apprentice and completion of a 2,000-hour apprenticeship for graduates of an approved private hairstyling school is required

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Durham College	Fanshawe College
Algonquin College	Niagara College
Georgian College	St. Clair College
St. Lawrence College	Lambton College
Sault College	Collège Boréal
George Brown College	
Toronto District School Board (ALC Training and Development) Elegance College of Healthcare Services & Cosmetology – Cornwall	

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

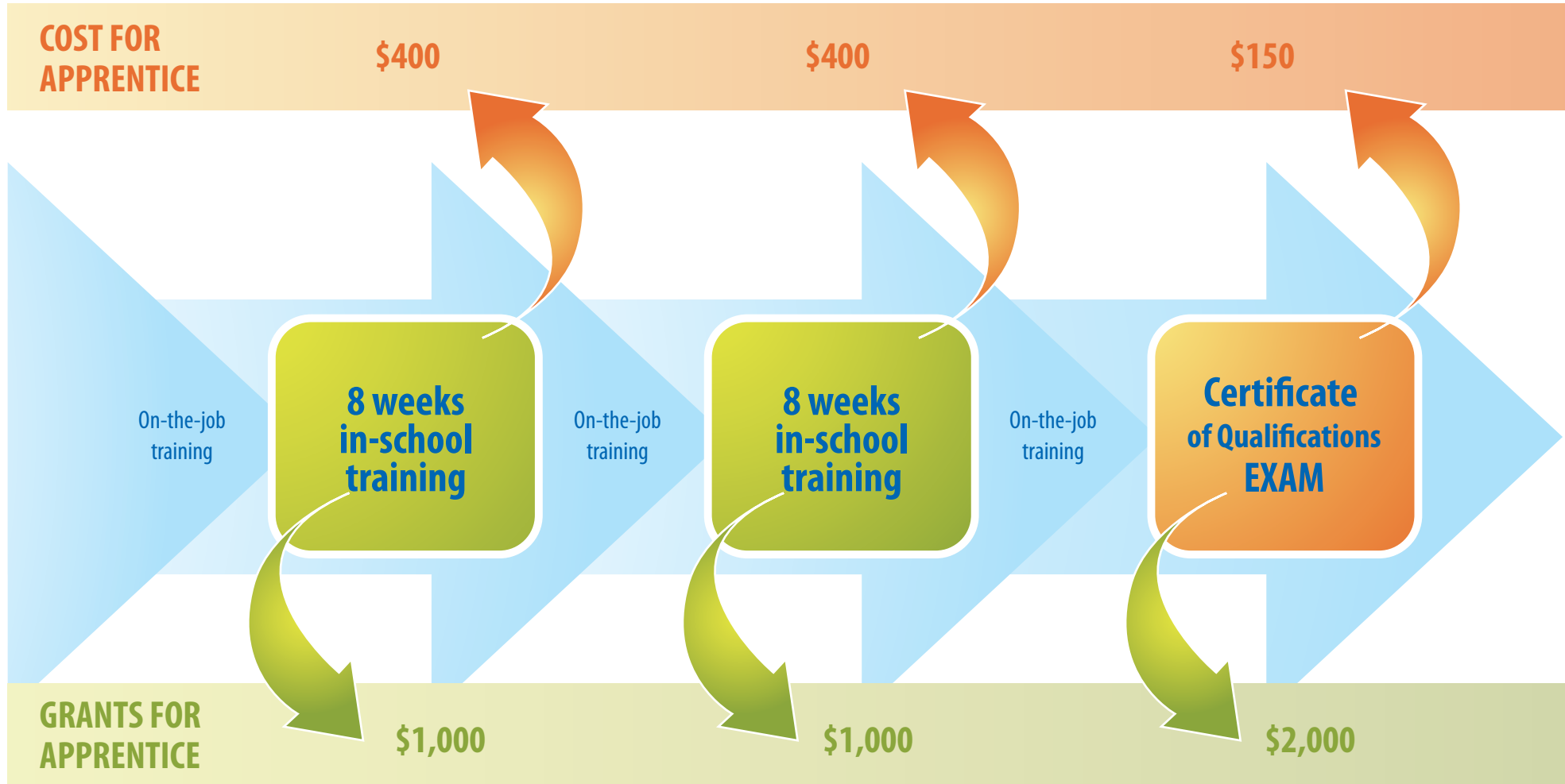
## Unofficial Ways of Referring to This Trade

- Barber
- Hair colour technician
- Hairdresser
- Wig stylist

# Hairstylist

Total training hours (on-the-job + in-school training) = 3,500

332A



Individuals choosing to pay a full fee and attend an approved private hairstyling school must, upon graduation, become registered apprentices and complete 2,000 hours on the job.

# Hazardous Materials Worker

**Number of Hours:** 2,898 hours

**Number of School Sessions:** 1 x 102 hours, usually 30 hours/week

**Trade Code:** 253H

**NOC** 75110

**Construction Sector**

## Description

- Identifies, removes, packages, transports and disposes of hazardous materials such as asbestos, mould, lead, mercury, and other biological hazards.
- Mobilizes site enclosures
- Pre-cleans work areas
- Builds work area enclosures
- Sets up decontamination chambers and waste chutes
- Removes and cleans hazardous material
- Dismantles work area enclosures and decontamination chambers
- Performs post tear-down clean
- De-mobilizes site enclosures
- Performs routine inspections

## Personal Qualities

- You are interested in protecting the environment through the safe removal/disposal of dangerous materials
- You are able to understand and apply safe working practices and procedures to the job
- You are able to construct and set up enclosures, decontamination chambers, and waste chutes
- You are willing and able to perform routine inspections
- You are knowledgeable or willing to learn about biological and physical hazards

## Career Opportunities and Other Details

Increased pressure for cleaner electric generation facilities could drive employment growth

## Minimum Academic Entry Level for Apprenticeship Registration

Minimum entry for this apprenticeship is a Grade 12 diploma. The exception to this is if you are actively enrolled in high school cooperative education or an Adult Learning Centre with a co-op placement in this trade, and you have an employer willing to register you as an apprentice.

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Interior Finishing Systems – Woodbridge Interior Finishing Systems – Ottawa  
L.I.U.N.A. 506  
L.I.U.N.A. 1059

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects

[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices [www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)







# Heat and Frost Insulator

**Number of Hours:** 5,770 hours

**Number of School Sessions:** 3 x 7 weeks (630 hours)

**Red Seal Trade**

**Trade Code:** 253A

**NOC** 72321

**Construction Sector**

## Description

- Reads and interprets drawings and specifications to determine insulation requirements
- Selects the amount and type of insulation to be installed
- Measures and cuts insulating material to the required dimensions
- Applies, installs, repairs and maintains insulating material
- Installs fire-stopping insulation
- Applies metal and plastic finishes

## Personal Qualities

- You like precise work
- You are looking for on-the-job variety
- You enjoy working with your hands and with machines
- You can work on scaffolding in high places and indoors or out, in all kinds of weather

## Career Opportunities and Other Details

- Heat and frost insulators are generally employed in construction sector; may work in commercial buildings, ships, industrial plants, or private residences
- Bending/lifting and exposure to hazardous materials are common
- Often hired by construction and insulation contractors

## Minimum Academic Entry Level for Apprenticeship Registration

Minimum entry for apprenticeship is Grade 10, or currently participating in high school co-op

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

International Association of Heat and Frost Insulators Allied Workers Local 95

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at

[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook

[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects

[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices [www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

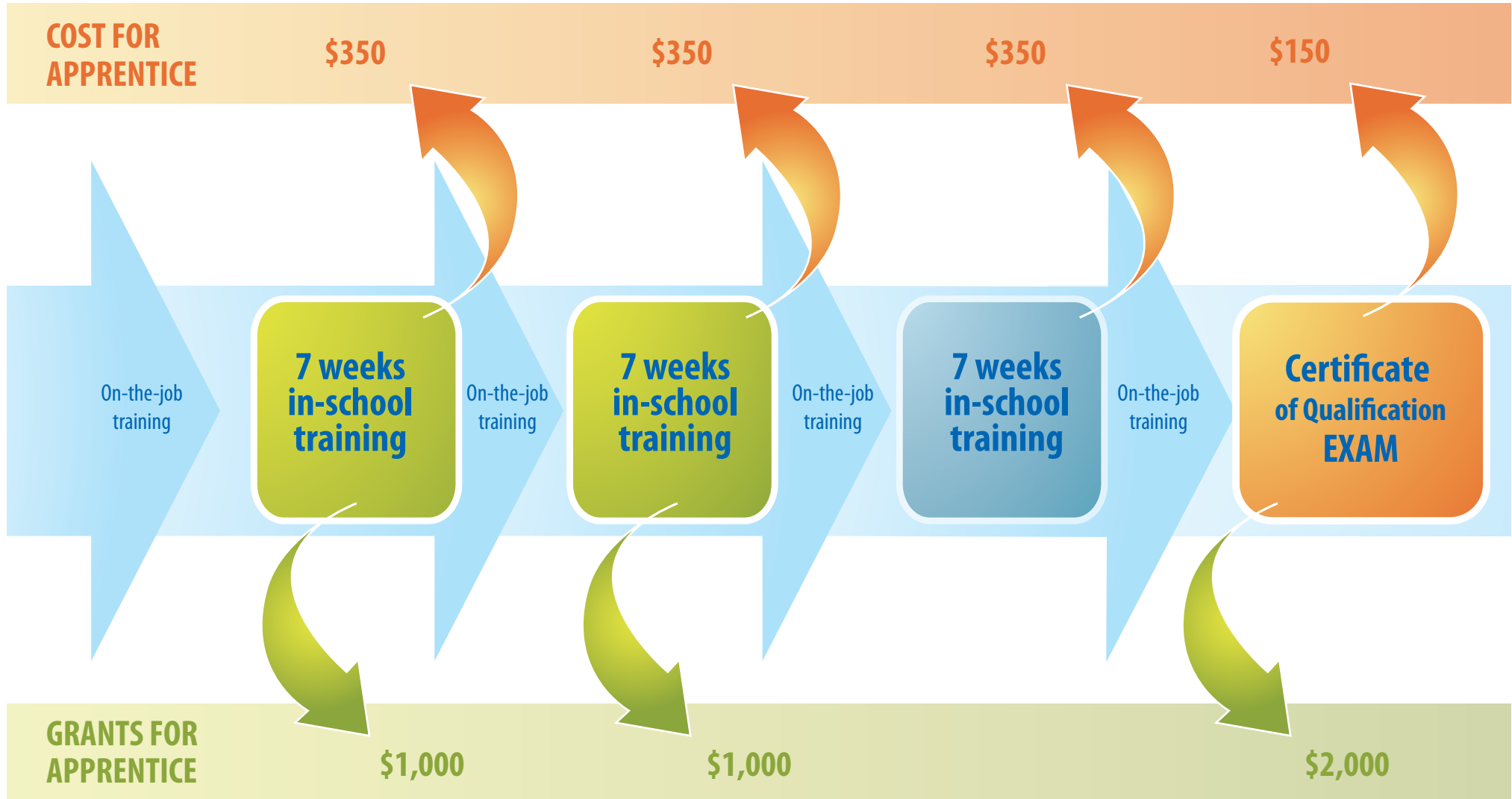
## Unofficial Ways of Referring to This Trade

- Boiler and pipe insulator
- Building insulator
- Firestopping insulator
- Sound insulator

NON-COMPULSORY

# Heat and Frost Insulator

Total training hours (on-the-job + in-school training) = 6,400



# Heavy Duty Equipment Technician

**Number of Hours:** 6,280 hours

**Number of School Sessions:** 3 x 8 weeks (240 hours)

**Red Seal Trade**

**Trade Code:** 421A

**NOC** 72401

**Motive Power Sector**

## Description

- Inspects, identifies, diagnoses, troubleshoots, repairs, and modifies systems, components, accessories and attachments (including checking for wear/damage/defects/problems, analysing performance and function, servicing, replacing, reprogramming, reconditioning, exchanging, adjusting, replacing and aligning)
- Works on multiple systems such as engines, fuel, electrical, hydrostatic and transmission, suspension, hydraulic, transmissions, and engine management, climate control, intake exhaust and emission control, steering, braking, drive, structural components, frames and undercarriages as well as ground engaging equipment
- Works in multiple sectors/industries such as mines, construction, forestry, marine, transportation, natural resources, and materials-handling

## Personal Qualities

- You have a keen eye and attention to detail for examining and identifying problems in functioning of bulldozers, cranes, graders, and other heavy construction, logging, and mining equipment
- You are patient when cleaning, lubricating, and maintaining equipment according to maintenance schedules
- You have dexterity for adjusting equipment; repairing or replacing defective parts, components, or systems
- You are patient when testing repaired equipment for proper performance
- You have the communication skills necessary to effectively communicating with customers, co-workers, and service managers
- You have language comprehension for reading owner/operator/manufacturer operating manuals and service specifications

## Career Opportunities and Other Details

- Full-time employment; travel and evening/weekend/overtime work may be required
- Heavy duty equipment technicians may work in modern laboratories or in construction fields, where environment is oily and greasy
- Occupational risks include heavy equipment and power tools
- Employers include heavy equipment firms; farming and transportation companies; and construction, mining, forestry, and material handling businesses

## Minimum Academic Entry Level for Apprenticeship Registration

Grade 12 graduate or actively participating in high school co-op

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Mohawk College	Centennial College
Cambrian College	Canadore College
Collège Boréal	Conestoga College
Confederation College	Mohawk College
Municipality of North Grenville – Kemptville	
Northern College	Sault College
St. Clair College	

Level 1, known as Commercial Vehicle and Equipment Common Core, are common with 425A Agricultural Equipment Technician; 282E Powered Lift Truck Technician; 310T Truck and Coach Technician. For common core levels, check listings under the other trades for possibly more school choices.

Level 2 is common with 425A Agricultural Equipment Technician. For common core levels, check listings under the other trades for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journey person's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

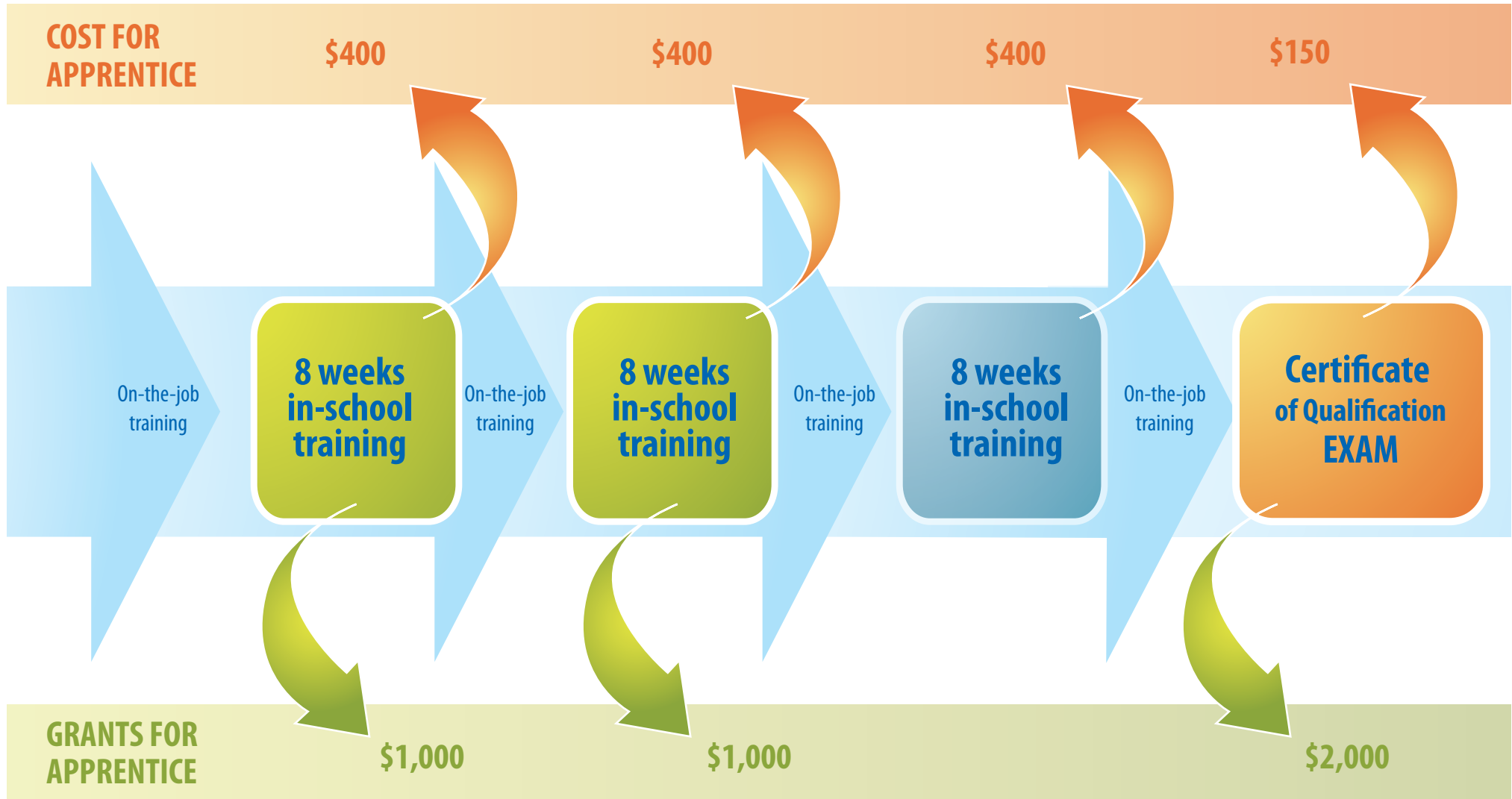
- Construction equipment mechanic
- Diesel mechanic – heavy
- Agricultural equipment technician
- Off-road equipment mechanic

NON-COMPULSORY

# Heavy Duty Equipment Technician

Total training hours (on-the-job + in-school training) = 7,000

421A



# Heavy Equipment Operator – Dozer

**Number of Hours:** 2,260 hours

**Number of School Sessions:** 2 sessions – 1 x 2.6 weeks and 1 x 5.4 weeks (240 hours)

**Red Seal Trade**

**Trade Code:** 636C

**NOC** 73400

**Construction Sector**

## Description

- Operates a dozer, its attachments and ground engaging equipment in various types of projects across multiple industries such as road construction and maintenance, mining, quarrying, land clearing, forestry, logging as well as gas and oil. Inspects, maintains, transports, and operates this equipment and attachments.
- Performs pre-operational inspections, safety and operational checks and preventative maintenance
- Monitors equipment performance, loads and unloads and transports, cleans, oils and refills equipment
- Reads and interprets government legislation, site plans and manufacturers' manuals (i.e., survey indicators)
- Installs, operates and removes attachments (i.e., quick attach, blades, buckets, rippers, towable scrapers and winches)
- Performs operations such as excavating, grading, ramp building, stockpiling, backfilling and towing ensuring maximum productivity
- Checks grades, performs cut and fill operations, maintains winter roads, moving mass materials, stripping surface materials, creates slopes and ditches, spreads materials, pushes scrapers, backfills trenches and excavations, maintains dumpsite area, levels surfaces and clears land.
- Communicates through various techniques including hand signals

## Personal Qualities

- You work well as part of a team and follow hand signals
- You are very safety conscious
- You have a good eye, hand/foot coordination, fast reflexes
- You have good manual dexterity and visual acuity
- You are willing to travel
- You are patient and able to sit for long periods
- You have good communication, analytical and problem solving skills

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

- Employment may be on a project-by-project basis and involve travel
- Public and private sector employers are mainly in the construction industry but also in petroleum, mining and forestry industries
- Oil and gas companies involved in large projects such as Alberta's oil sands development offer unique opportunities

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Completion of a 2,260-hour apprenticeship program is required
- May require specific license(s) to drive transporter vehicle

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Operating Engineers Training Institute of Ontario - Morrisburg

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

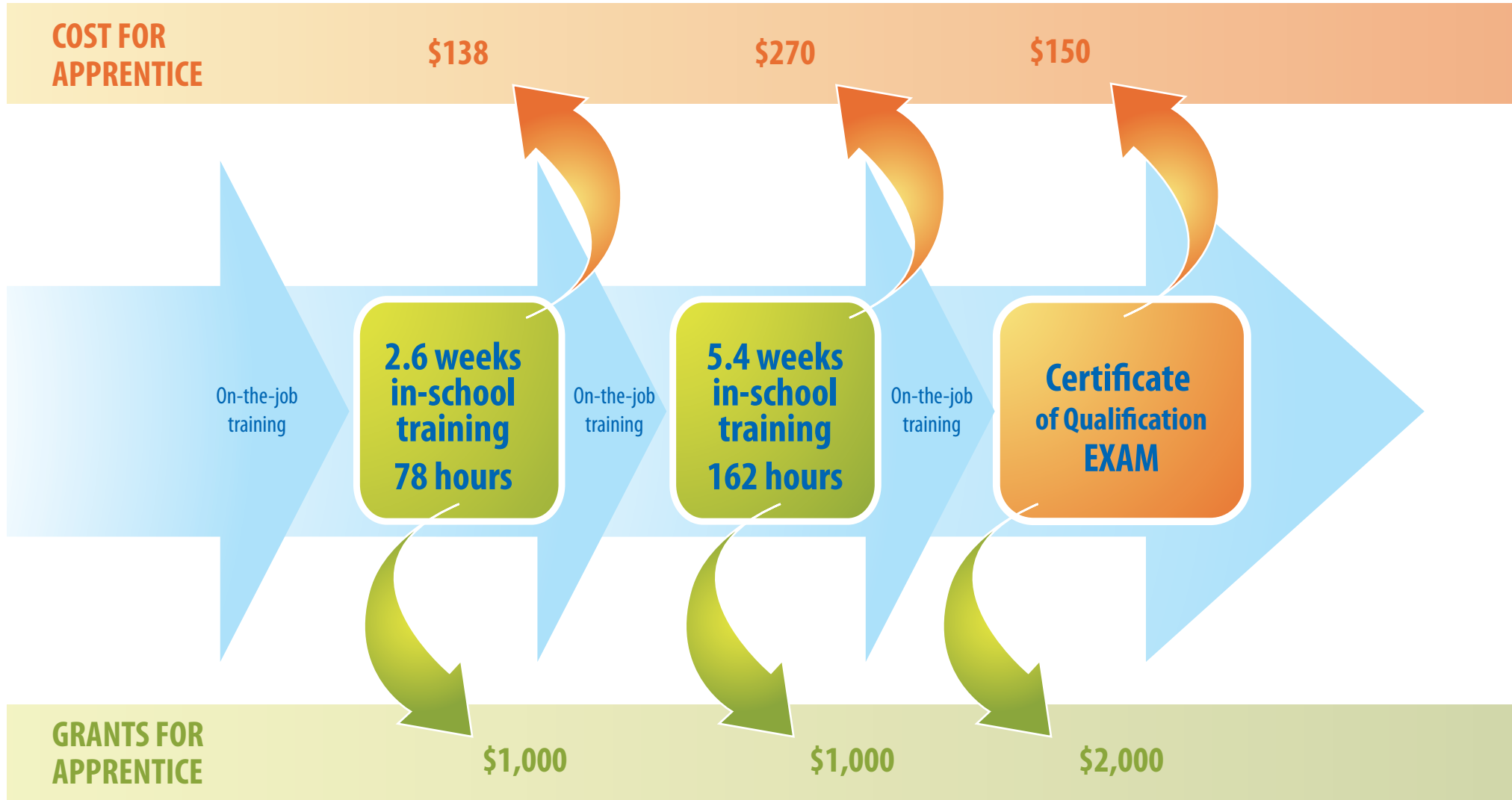
- Excavator operator
- Grader operator
- Loader operator – construction
- Side boom tractor operator
- Surface mining equipment operator



# Heavy Equipment Operator – Dozer

Total training hours (on-the-job + in-school training) = 2,500

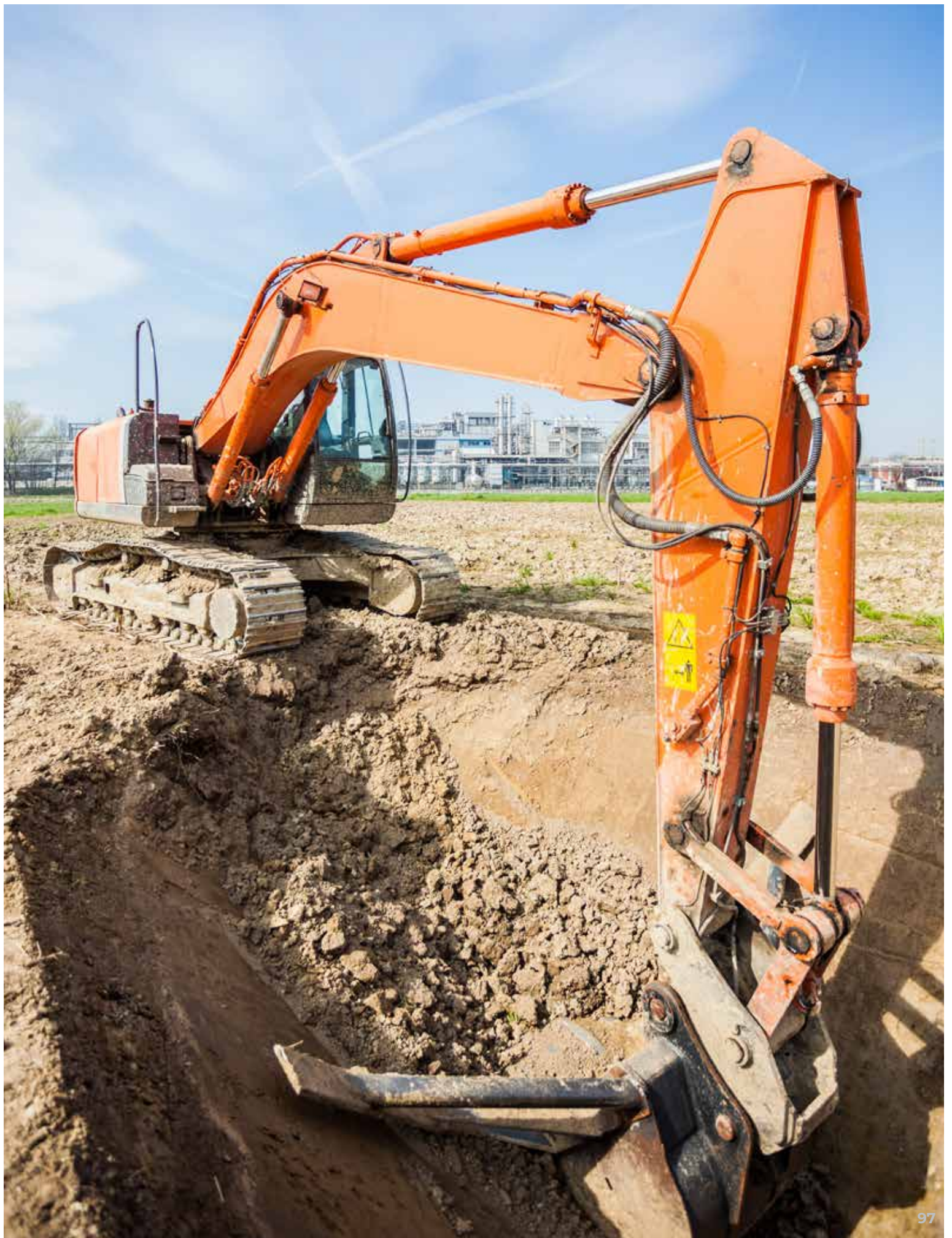
636C





Used with permission of Dr. Jon Callegher, Executive Director of Job Talks





# Heavy Equipment Operator – Excavator

**Number of Hours:** 2,260 hours

**Number of School Sessions:** 2 sessions – 1 x 2.6 weeks and 1 x 5.4 weeks = 240 hours

**Red Seal Trade**

**Trade Code:** 636B

**NOC** 73400

**Construction Sector**

## Description

- Operates an excavator, its attachments and ground engaging equipment in various types of projects across multiple industries, such as road construction and maintenance, mining, quarrying, land clearing, forestry, logging, as well as gas and oil. They inspect, maintain, transport and operate this equipment and its attachments.
- Performs pre-operational inspections, safety and operational checks, preventative maintenance
- Monitors equipment performance
- Loads and unloads, transports, cleans, oils and refills equipment
- Reads and interprets government legislation, site plans and manufacturers' manuals (i.e., survey indicators)
- Installs, operates and removes attachments (i.e., quick attach, buckets, rakes, levels, tillers, cutters, blades, grapples, pushers, vibrators and breakers)
- Performs operations, such as excavating, grading, ramp building, stockpiling, backfilling and towing, ensuring maximum productivity
- Checks grades, performs cut and fill operations, backfills trenches and excavations, creates slopes, creates mass excavations, clears land, strips surface materials, stockpiles and places materials, lifts materials, performs logging and surface mining operations, performs demolitions, bales snow
- Communicates through various techniques including hand signals

## Personal Qualities

- You work well as part of a team and follow hand signals
- You are very safety conscious
- You have a good eye, hand/foot coordination, fast reflexes
- You have good manual dexterity and visual acuity
- You are willing to travel
- You are patient and able to sit for long periods
- You have good communication, analytical and problem solving skills

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

- Employment may be on a project-by-project basis and involve travel
- Public and private sector employers are mainly in the construction industry but also in petroleum, mining and forestry industries
- Oil and gas companies involved in large projects such as
- Alberta's oil sands development offer unique opportunities

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Completion of a 2,260-hour apprenticeship program is required
- May require specific license(s) to drive transporter vehicle

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Operating Engineers Training Institute of Ontario - Morrisburg

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Excavator operator
- Grader operator
- Loader operator – construction
- Side boom tractor operator
- Surface mining equipment operator



# Heavy Equipment Operator – Excavator

Total training hours (on-the-job + in-school training) = 2,500

636B





# Heavy Equipment Operator – Tractor Loader Backhoe

**Number of Hours:** 2,260 hours

**Number of School Sessions:** 2 sessions - 1 x 2.6 weeks and 1 x 5.4 weeks = 240 hours

**Red Seal Trade**

**Trade Code:** 636A

**NOC** 73400

**Construction Sector**

## Description

- Operates a tractor loader backhoe, its attachments and ground engaging equipment in various types of projects across multiple industries, such as road construction and maintenance, mining, quarrying, land clearing, forestry, logging, as well as gas and oil. Inspects, maintains, transports, and operates this equipment and attachments
- Performs pre-operational inspections, safety and operational checks and preventative maintenance
- Monitors equipment performance, loads and unloads, transports and cleans, oils and refills equipment
- Reads and interprets government legislation, site plans and manufacturers' manuals (i.e., survey indicators)
- Installs, operates and removes attachments (i.e., quick attach, buckets, bucket thumbs, quick couplers, splitters, grapples, teeth and adapters)
- Performs operations such as excavating, grading, ramp building, stockpiling, backfilling and towing ensuring maximum productivity
- Clears ice and snow, checks grades, performs cut and fill operations, backfills trenches and excavations, stockpiles and places materials, excavates trenches and ditches, loads trucks, lifts materials, performs clean-up operations, performs logging and surface mining operations, and performs demolitions
- Communicates through various techniques including hand signals

## Personal Qualities

- You work well as part of a team and follow hand signals
- You are very safety conscious
- You have a good eye, hand/foot coordination, fast reflexes
- You have a good manual dexterity and visual acuity
- You are willing to travel
- You are patient and able to sit for long periods
- You have good communication, analytical and problem solving skills

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

- Employment may be on a project-by-project basis and involve travel
- Public and private sector employers are mainly in the construction industry but also in petroleum, mining and forestry industries
- Oil and gas companies involved in large projects such as Alberta's oil sands development offer unique opportunities

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Completion of a 2,260-hour apprenticeship program is required
- May require specific license(s) to drive transporter vehicle

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Operating Engineers Training Institute of Ontario -  
Morrisburg  
L.I.U.N.A. Local 183

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

## Financial incentives for employers sponsoring apprentices

[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Excavator operator
- Grader operator
- Loader operator – construction
- Side boom tractor operator
- Surface mining equipment operator

# Heavy Equipment Operator – Tractor Loader Backhoe

Total training hours (on-the-job + in-school training) = 2,500

636A



# Hoisting Engineer – Mobile Crane Operator 1

**Number of Hours:** 5520 hours

**Number of School Sessions:** 4 sessions – 1x 8 weeks and 3 x 2.6 weeks = 480 hours

**Compulsory Trade/Red Seal Trade**

**Trade Code:** 339A

**NOC** 72500

**Construction Sector**

## Description

- Maintains and operates mobile cranes that are capable of raising, lowering or moving material weighing more than 16,000 pounds. A 'Mobile Crane' is a mechanical device or structure that incorporates a boom that is capable of moving in the vertical and horizontal plane and is able to raise, lower or move a load suspended from the boom, and is mounted on a mobile base or chassis and includes a telescoping or articulated boom.
- Understands and practices safety precautions to protect themselves and others
- Is able to conduct pre-operational inspections and prepare and transport cranes
- Plans lifts
- Is able to assemble and dismantle cranes
- Performs rigging and setting up the cranes
- Operates hydraulic cranes and conventional friction cranes
- Performs regular maintenance on cranes

## Personal Qualities

- You are able to work outdoors, sometimes at great heights
- You are an extremely safety conscious person who learns and applies safety rules
- You can calculate crane capacity and weights carefully
- You keep calm and cool under stressful situations
- You communicate well with co-workers to ensure the safety of those on the ground working near your machinery
- You have good eyesight and hand/eye coordination

Review essential skills profile for additional qualities [www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities and Other Details

- Hoisting engineers work through contractors or directly for commercial building developers, building construction firms, large manufacturing companies and heavy construction firms as well as small and medium companies
- Some mobile crane operators have their own companies
- The majority of hoisting engineers are union members

## Minimum Academic Entry Level for Apprenticeship Registration

- The minimum entry for apprenticeship is Grade 10; however, some employers will require Grade 12
- Completion of a 3-year apprenticeship program at 2,000 hours per year

- If you have completed 6,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca) Refer to [www.oetio.com](http://www.oetio.com) for up-to-date information on the training requirements

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Durham College                      Algoma College  
Operating Engineers Training Institute of Ontario  
Morrisburg ON

Level 1 is common with 339B Hoisting engineer – Tower crane operator; 339C Hoisting engineer – Mobile crane operator 2. For common core levels, check listings under the other trades for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices [www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

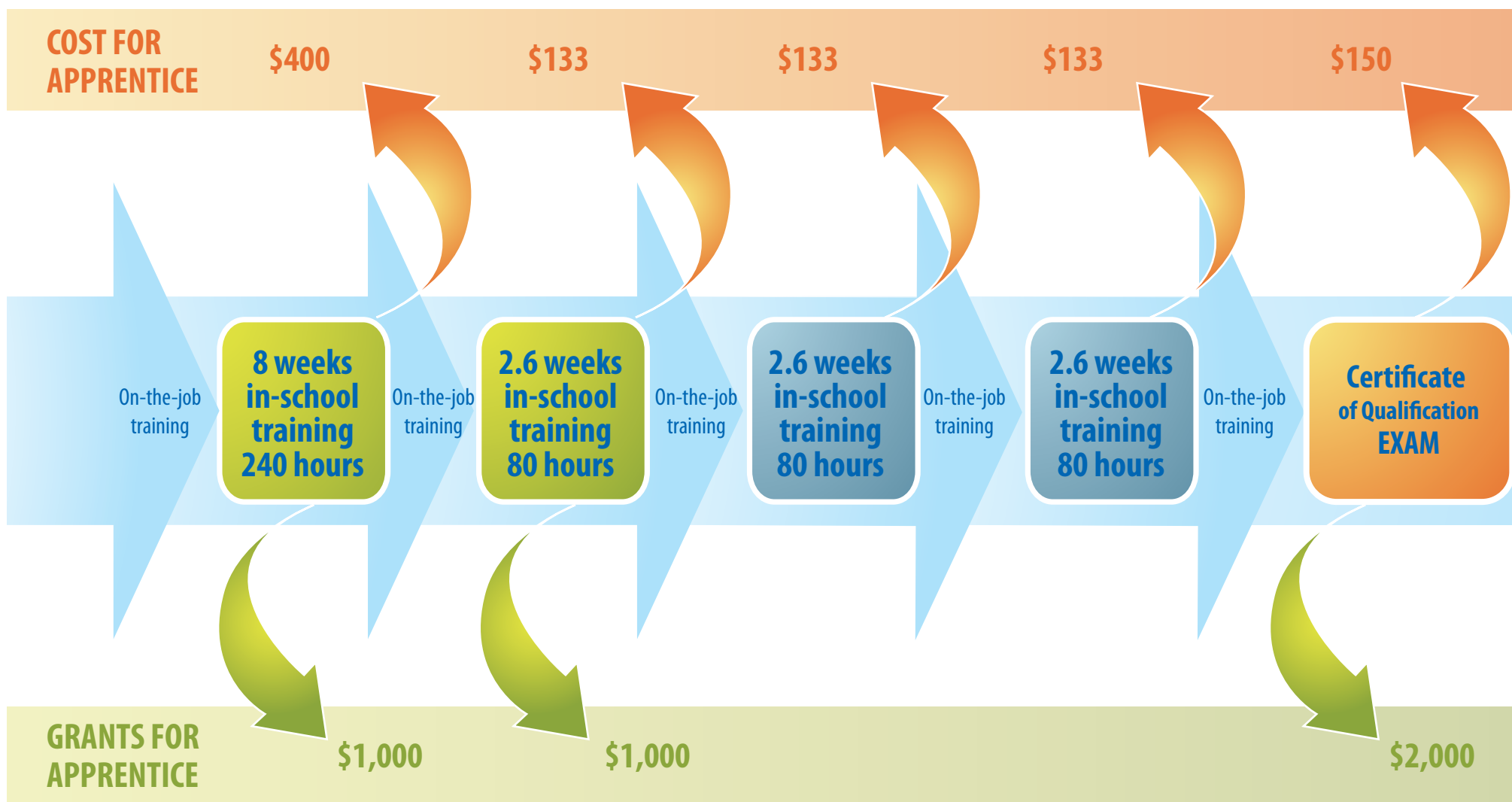
## Unofficial Ways of Referring to This Trade

- Boom truck crane operator
- Bridge crane operator
- Climbing crane operator
- Dragline crane operator
- Gantry crane operator

# Hoisting Engineer – Mobile Crane Operator 1

Total training hours (on-the-job + in-school training) = 6,000

339A



Employer decides when to book each session of in-school training over the 4-year apprenticeship.  
The employer registers the apprentice for in-school training.

# Hoisting Engineer – Mobile Crane Operator 2

**Number of Hours:** 760 hours  
**Number of School Sessions:** 8 weeks - 240 hours  
**Compulsory Trade**

**Trade Code:** 339C  
**NOC** 72500  
**Construction Sector**

## Description

- Maintains and operates mobile cranes that are capable of raising, lowering or moving material weighing more than 16,000 pounds but less than 30,000 pounds. Upon completion of this apprenticeship you could progress to a Mobile Crane Operator (Branch 1). A 'Mobile Crane' is a mechanical device or structure that incorporates a boom and is capable of moving in the vertical and horizontal plane and is able to raise, lower or move a load suspended from the boom, and is mounted on a mobile base or chassis and includes a telescoping or articulated boom.
- Understands and practices safety precautions to protect themselves and others
- Is able to conduct pre-operational inspections, prepare and transport cranes
- Plans lifts and performing rigging
- Sets up, operates and maintains cranes

## Personal Qualities

- You are able to work outdoors, sometimes at great heights
- You are an extremely safety conscious person who learns and applies safety rules
- You can calculate crane capacity and weights carefully
- You keep calm and cool if things go wrong
- You communicate well with co-workers to ensure the safety of those on the ground working near your machinery
- You have good eyesight and hand/eye coordination

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities and Other Details

- Hoisting engineers work through contractors or directly for commercial building developers, building construction firms, large manufacturing companies and heavy construction firms as well as small and medium companies
- Some mobile crane operators have their own companies
- The majority of hoisting engineers are union members

## Minimum Academic Entry Level for Apprenticeship Registration

- The minimum entry for apprenticeship is Grade 10; however, many employers require Grade 12
- Completion of a 1,000-hour apprenticeship program is required

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Durham College  
Operating Engineers Training Institute of Ontario  
Morrisburg ON  
[www.oetio.com](http://www.oetio.com)

Level 1 is common with 339A Hoisting Engineer – Mobile Crane Operator 1; 339B Hoisting Engineer – Tower Crane Operator. For common core levels, check listings under the other trades for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Boom truck crane operator
- Bridge crane operator
- Climbing crane operator
- Dragline crane operator
- Gantry crane operator



# Hoisting Engineer – Mobile Crane Operator 2

Total training hours (on-the-job + in-school training) = 1,000

339C

**COST FOR  
APPRENTICE**

**\$400**

**\$150**

On-the-job  
training

**8 weeks  
in-school  
training**

On-the-job  
training

**Certificate  
of Qualification**

**GRANT FOR  
APPRENTICE**

**\$2,000**

# Hoisting Engineer – Tower Crane Operator

**Number of Hours:** 2640 hours

**Number of School Sessions:** 3 sessions, 1 x 8 weeks + 1 x 2.6 weeks + 1 x 1.3 weeks = 360 hours

**Compulsory Trade/Red Seal Trade**

**Trade Code:** 339B

**NOC** 72500

**Construction Sector**

## Description

- A 'Tower Crane' is a mechanical device or structure that is of the travelling, fixed or climbing type and has a boom, power driven drum and wire rope to raise, lower or move material, and a vertical mast or tower and jib.
- Understands and practices safety precautions to protect themselves and others
- Conducts pre-operational inspections
- Is responsible for planning lifts, performing rigging and maintaining cranes
- Operates hammerhead cranes and luffer cranes
- Is able to climb cranes (internal)

## Personal Qualities

- You are able to work outdoors, sometimes at great heights
- You are an extremely safety conscious person who learns and applies safety rules
- You can calculate crane capacity and weights carefully
- You keep calm and cool if things go wrong
- You communicate well with co-workers to ensure the safety of those on the ground working near your machinery
- You have good eyesight and hand/eye coordination
- You are adaptable to use robotics, computerized and electronic controls instead of mechanical operations

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities and Other Details

- Hoisting engineers work through contractors or directly for commercial building developers, building construction firms, large manufacturing companies and heavy construction firms as well as small and medium companies
- Some mobile crane operators have their own companies
- The majority of hoisting engineers are union members

## Minimum Academic Entry Level for Apprenticeship Registration

- The minimum entry for apprenticeship is Grade 10; however, most employers and unions require Grade 12
- Completion of a 2-year apprenticeship program at 1,500 hours per year
- Changes have been made to the training requirements, refer to [www.oetio.com](http://www.oetio.com) for up-to-date information on the training requirements

- If you have completed 3,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Durham College  
Operating Engineers Training Institute of Ontario  
Morrisburg ON  
[www.oetio.com](http://www.oetio.com)

Level 1 is common with 339A Hoisting Engineer – Mobile Crane Operator 1; 339C Hoisting Engineer – Mobile Crane Operator 2. For common core levels, check listings under the other trades for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

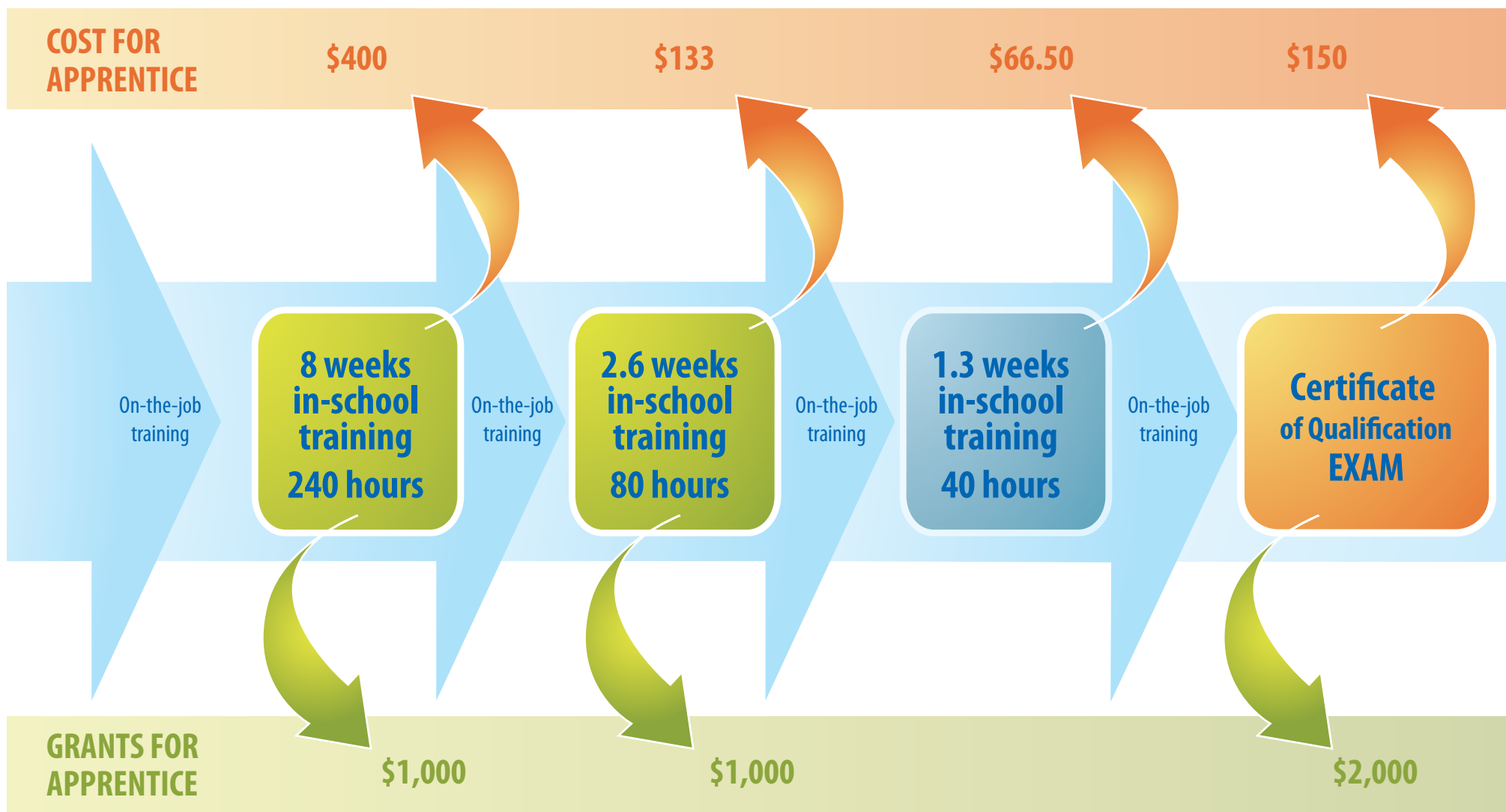
## Unofficial Ways of Referring to This Trade

- Boom truck crane operator
- Bridge crane operator
- Climbing crane operator
- Dragline crane operator
- Gantry crane operator

# Hoisting Engineer – Tower Crane Operator

Total training hours (on-the-job + in-school training) = 3,000

339B



Employer decides when to book each session for in-school training over the 4-year apprenticeship.  
The employer registers the apprentice for in-school training.

# Horse Groom

**Number of Hours:** 3,598 hours  
**Number of School Sessions:** 1 x 13.4 weeks (402 hours)

**Trade Code:** 600H  
**NOC** 65220  
**Service Sector**

## Description

- Handles and controls horses
- Performs grooming procedures
- Performs tacking-up of horse
- Performs untacking of horse
- Performs feeding procedures
- Performs horse health maintenance procedures
- Cleans stalls
- Maintains stable facilities, tools, equipment and supplies

## Personal Qualities

- You are physically fit and have stamina
- You have good observational skills to notice changes in a horse's condition
- You have practical hand skills
- You pay attention to detail
- You are willing to work outside in all types of weather, and to do routine tasks

## Career Opportunities

- Grooms may find positions with racing stables, showing stables, riding schools, boarding farms, breeding farms, stallion farms, polo clubs, equine vet clinics, and nutritional research centers
- Some grooms specialize by working exclusively with one equine age group, such as foals, yearlings, or mature stallions. Others choose to focus their efforts on working in a particular sport or with a particular breed
- Grooming skills are highly transferable from one area of the equine industry to another, so there is always the option of transitioning into another area of equine sport or production
- Some individuals also choose to travel internationally while working with horses in grooming positions
- There are opportunities to move up into management positions as they become more experienced
- Former grooms have transitioned to careers as stable managers, trainers, exercise riders, show riders, breeders, veterinary assistants, or farm managers

## Minimum Academic Entry Level for Apprenticeship Registration

Grade 12 graduate or actively participating in high school co-op

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

I-CAN-T.E.R. – Ridgeway

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journey person's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Horse trainer
- Feedlot foreperson
- Ranch foreperson

# Horse Groom

Total training hours (on-the-job + in-school training) = 4,000

600H

**COST FOR  
APPRENTICE**

**\$650**

On-the-job  
training

**13.4 weeks  
in-school  
training  
402 hours**

On-the-job  
training

**Certificate  
of Apprenticeship**

**GRANT FOR  
APPRENTICE**

**\$2,000**



# Horticultural Technician

**Number of Hours:** 5,400 hours  
**Number of School Sessions:** 2 x 12 weeks (720 hours)  
**Red Seal Trade**

**Trade Code:** 441C  
**NOC** 22114  
**Service Sector**

## Description

- Works as part of a team in a safe and efficient manner
- Plans job in an effective manner to ensure optimum job efficiency and effectiveness
- Identifies plants, pests and materials
- Removes and prepares plants and materials for shipping
- Propagates, produces, cultivates, fertilizes, installs, maintains and irrigates plants and turf grasses
- Uses and operates tools and equipment used in horticulture
- Interprets and implements landscape drawings
- Installs natural stone, pre-cast stone, concrete and wood for landscaping
- Inspects woody plants to identify deficiencies/damage and to determine required method of pruning; performs various types of pruning cuts to correct deficiencies and/or obtain desired results
- Inspects woody plants for damage and determine method of repair to ensure healthy plants
- Identifies signs and symptoms of major pest types, complies with relevant legislation, uses biological and chemical pest controls, performs various methods of application and calibrates application equipment
- Inspects, handles, and transports nursery stock

## Personal Qualities

- You like working with plants, bushes, trees and soil
- You like to work outdoors
- You are a safety conscious person who learns and applies safety rules
- You like challenging work
- You are in good physical shape

## Career Opportunities

- Private residential or commercial landscape management companies, golf courses, nurseries, greenhouses, municipal governments, national or provincial parks departments and utility companies employ horticultural technicians
- Some horticultural technicians have their own business

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Completion of a 5,400-hour apprenticeship program is required

- If you have completed 6,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Humber College	Mohawk College
Algonquin College	Fanshawe College
Loyalist College	

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

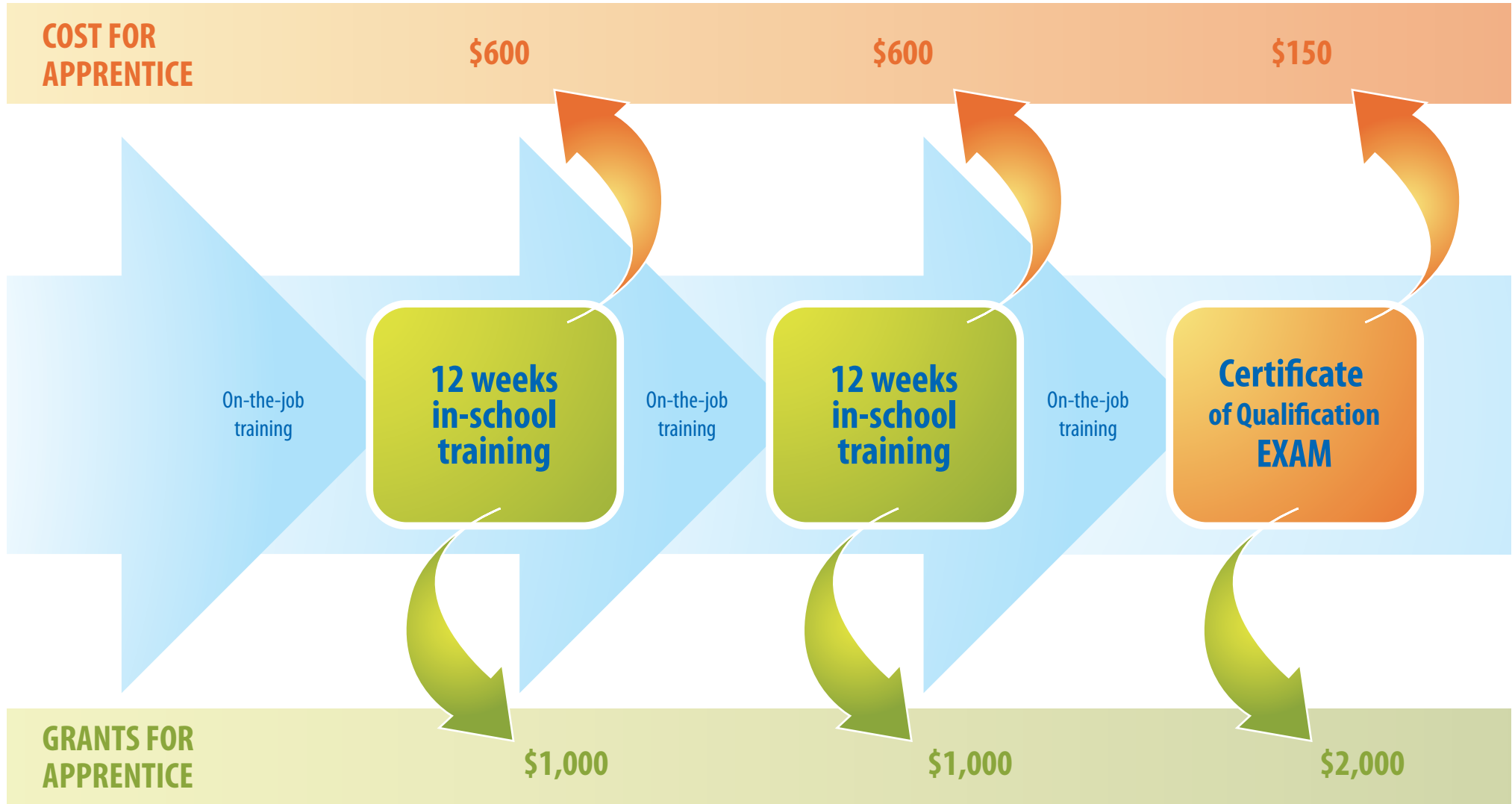
## Unofficial Ways of Referring to This Trade

- Horticulture specialist
- Golf course superintendent
- Greenskeeper
- Arborist
- Hydroponics technician

NON-COMPULSORY

# Horticultural Technician

Total training hours (on-the-job + in-school training) = 6,120



# Industrial Electrician

**Number of Hours:** 8,160 hours

**Number of School Sessions:** 3 sessions – 1 x 8 weeks,  
2 x 10 weeks (840 hours)

**Red Seal Trade**

**Trade Code:** 442A

**NOC** 72201

**Industrial Sector**

## Description

- Reads and interprets drawings, blueprints, schematics and electrical code specifications to determine layout of industrial electrical equipment installations
- Installs, examines, replaces or repairs electrical wiring, receptacles, switch boxes, conduits, feeders, fibre-optic and coaxial cable assemblies, lighting fixtures and other electrical components
- Tests electrical and electronic equipment and components for continuity, current, voltage and resistance
- Maintains, repairs, installs and tests switchgear, transformers, switchboard meters, regulators and reactors
- Maintains, repairs, tests and installs electrical motors, generators, alternators, industrial storage batteries and hydraulic and pneumatic electrical control systems
- Troubleshoots, maintains and repairs industrial, electrical and electronic control systems and other related devices
- Conducts preventive maintenance programs and keeps maintenance records
- May install, maintain and calibrate industrial instrumentation and related devices

## Personal Qualities

- You are able to work in cramped or noisy areas
- You work inside all year round in a variety of temperatures
- You have the stamina to be on your feet for long periods of time
- You are extremely safety conscious
- You are punctual and show initiative and work smart
- You like updating your technical knowledge on a continuing basis

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

Small, medium and large industrial companies employ industrial electricians on a full-time basis

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Completion of an 8,160-hour apprenticeship program is required

- If you have completed 9,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Conestoga College	St. Clair College
Confederation College	Sheridan College
Durham College	Sault College
Fanshawe College	Mohawk College
Humber College	St. Lawrence College
Cambrian	Canadore College
Centennial College	Collège Boréal
Niagara College	Georgian College – Midland
Georgian College – Owen Sound	

Levels 1 and 2 are common with 309A Electrician – Construction and Maintenance; 309C Electrician – Domestic and Rural. For common core levels, check listings under the other trades for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

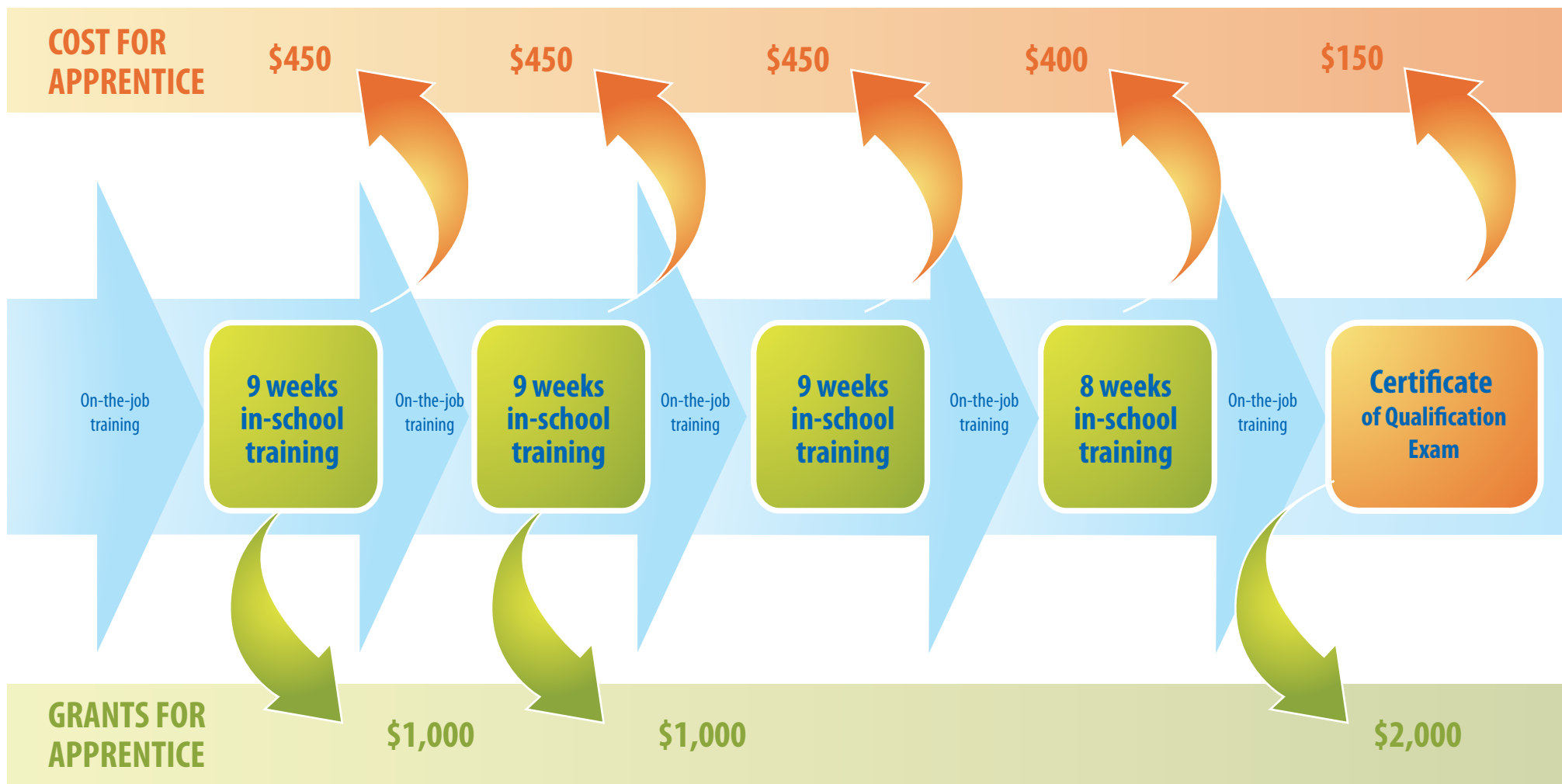
## Unofficial Ways of Referring to This Trade

- Apprentice electrician
- Mine electrician
- Mill electrician
- Plant maintenance electrician

# Industrial Electrician

Total training hours (on-the-job + in-school training) = 9,210

442A



An industrial electrician works within the plant setting of their own employer, at the address of the employer and under the auspices of the employer's own health and safety systems and only works on equipment owned by that employer.

# Industrial Mechanic Millwright

**Number of Hours:** 7,280 hours  
**Number of School Sessions:** 3 x 8 weeks (720 hours)  
**Red Seal Trade**

**Trade Code:** 433A  
**NOC** 72400  
**Industrial Sector**

## Description

- Installs, repairs and maintains industrial plant machinery and equipment
- Reads blueprints, diagrams and schematic drawings to determine work procedures
- Dismantles and moves stationary industrial machinery and mechanical equipment such as pumps, fans, tanks, conveyors, furnaces and generators according to plans, using hand and power tools
- Operates hoisting and lifting devices such as cranes, jacks and tractors to position machinery and parts during the installation, set-up and repair of machinery
- Inspects and examines machinery and equipment to detect and investigate irregularities and malfunctions
- Installs, troubleshoots and maintains power transmission, vacuum, hydraulic and pneumatic systems, and programmable logic controls
- Adjusts machinery and repairs or replaces defective parts
- Operates machine tools such as lathes and grinders to fabricate parts required during overhaul, maintenance or set-up of machinery
- Cleans, lubricates and performs other routine maintenance work on machinery
- Uses hand and power tools and welding equipment

## Personal Qualities

- You are able to work indoors with noise, vibrations and other hazards that are common on the job
- You enjoy working to close and exacting tolerances
- You have the stamina to be on your feet for long periods of time
- You like to learn new things on a consistent basis

## Career Opportunities

Industrial mechanic millwrights are employed in manufacturing plants, utilities and other industrial establishments

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Completion of a 7,280-hour apprenticeship program is required
- If you have completed 8,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Durham College	Mohawk College
St. Clair College	Conestoga College
Fanshawe College	Confederation College
George Brown College	Georgian College
La Cité Collégiale	St. Lawrence College
Sheridan College	Cambrian College
Niagara College	Northern College

Levels 1 and 2 are common with 426A Construction millwright. For common core levels, check listings under the other trade for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

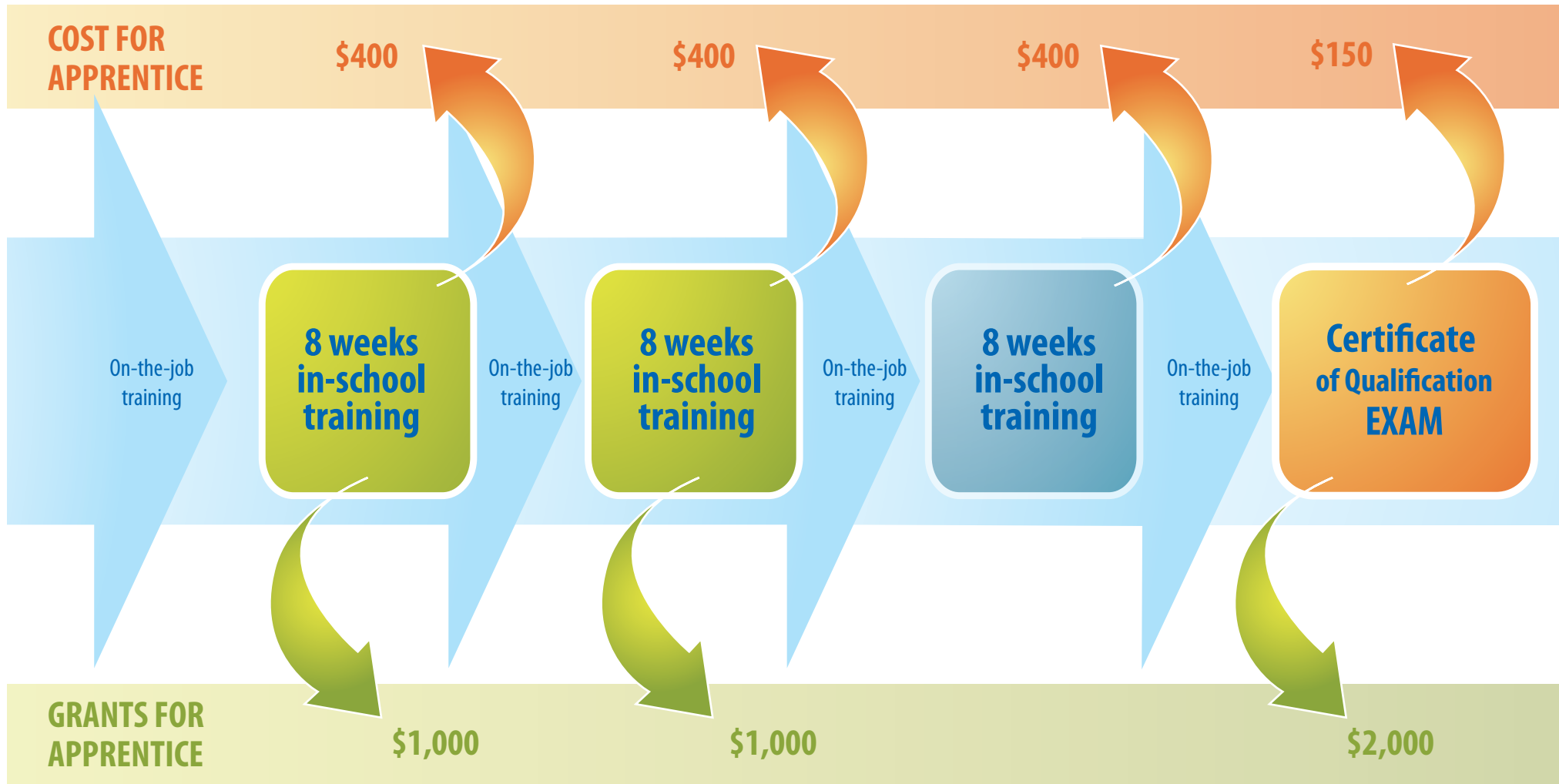
- Treatment plant maintenance mechanic
- Plant equipment mechanic
- Industrial mechanic
- Maintenance millwright



NON-COMPULSORY

# Industrial Mechanic Millwright

Total training hours (on-the-job + in-school training) = 8,000



An industrial mechanic millwright works in support of production within the plant setting of their own employer, at the address of the employer and under the auspices of the employer's own health and safety systems and only works on equipment owned by that employer.

# Information Technology – Hardware Technician

**Number of Hours:** 6,420 hours

**Number of School Sessions:** 2 sessions – 1 x 12 weeks + 1 x 9 weeks = (630 hours)

**Trade Code:** 634B

**NOC** 22221

**Service Sector**

## Description

- Supports client use of computer applications and operating systems software
- Is responsible for the installation of network components, hardware and software
- Troubleshoots information systems
- Assembles microcomputer systems from components
- Is responsible for troubleshooting and repairing microcomputer hardware
- Configures, optimizes and upgrades components and peripherals in microcomputer systems
- Creates and maintains required documentation
- Trains new users
- Researches problems and investigates new software products

## Personal Qualities

- You like working with computers and the latest technology
- You like problem solving and learning new things
- You have the stamina to sit at your workstation for hours

## Career Opportunities

- Information technology hardware technicians work for technology service companies, computer stores, all levels of governments, manufacturers, major retail chains, the military, banks, educational institutions and many other businesses
- Some information technology hardware technicians have their own business

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Completion of a 6,420-hour apprenticeship is required

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Canadore College

Level 1 is common with 634C Information Technology Network Technician. For common core levels, check listings under the other trade for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook

[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects

[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices [www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Hardware installation technician
- Hardware technical support analyst
- User support technician
- Software installation

# Information Technology – Network Technician

**Number of Hours:** 6,340 hours  
**Number of School Sessions:** 2 x 12 weeks (720 hours)

**Trade Code:** 634C  
**NOC** 22222  
**Service Sector**

## Description

- Installs, configures and maintains client workstations and network servers connected by a local area network
- Troubleshoots network errors
- Implements network security
- Applies technical knowledge of data communications, standards, protocols and Internetworking concepts
- Creates and maintains network documentation
- Requests and evaluates vendor proposals for network solutions
- Troubleshoots information systems

## Personal Qualities

- You like working with computers and the latest technology
- You like problem solving and learning new things
- You have the stamina to sit at your workstation for hours

## Career Opportunities

- Information technology network technicians work for technology service companies, computer stores, all levels of governments, manufacturers, major retail chains, the military, banks, educational institutions and many other businesses
- Some information technology network technicians have their own business

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Completion of a 6,340-hour apprenticeship is required

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Canadore College

Level 1 is common with 634B Information Technology Hardware Technician. For common core levels, check listings under the other trade for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Network support technician
- Web technician
- LAN (local area network) administrator/technician
- System administrator
- Server administrator

# Institutional Cook

**Number of Hours:** 3,600 hours  
**Number of School Sessions:** 1 x 12 weeks (360 hours)

**Trade Code:** 415D  
**NOC** 63200  
**Service Sector**

## Description

- Prepares meals in both small and large quantities using bulk-cooking methods in conventional, cook chill or cook freeze environments
- Prepares food to meet individual dietary needs, including health, religious needs, ethnic preferences, and budgetary requirements
- May work in retirement or long-term care homes, hospitals, childcare centres, school dining areas, correctional facilities and corporate environments
- Prepares meals for special diets and understands nutritional restrictions and portion size to be served
- Uses standardized recipes and specialized equipment for modification techniques during food preparation to achieve the prescribed or recommended textures and viscosity
- Prepares and cooks meats, poultry, and seafood
- Prepares stock, soups and sauces from scratch or convenience
- Prepares and assembles complete breakfasts, sandwiches, salads, and dressings
- Prepares baked goods, pastries, desserts, and vegetables
- Is knowledgeable about weights and measures, hygiene, equipment handling, sanitation, and workplace safety

## Personal Qualities

- You are willing to learn
- You have genuine passion
- You are organized
- You have the ability to skillfully multitask
- You are creative
- You are good at time management
- You embrace teamwork

## Career Opportunities and Other Details

- Mix of full-time and part-time; hours can be long and irregular
- Career path generally is apprentice, followed by line cook, junior institutional cook, chef/supervisor
- Employers include long-term care or retirement homes, hospitals, day care centres, school dining areas, and prison correctional facilities

## Minimum Academic Entry Level for Apprenticeship Registration

Minimum entry for this apprenticeship is a Grade 12 diploma.

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Fanshawe College  
Georgian College – Owen Sound

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journey person's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)





# Instrumentation and Control Technician

**Number of Hours:** 7,280

**Number of School Sessions:** 3 x 8 weeks (720 hours)

**Red Seal Trade**

**Trade Code:** 447A

**NOC** 22312

**Industrial Sector**

## Description

- Installs, maintains and configures control and process systems
- Calibrates, commissions, configures, installs and troubleshoots all pneumatic, electronic, electrical, mechanical and analytical instrumentation devices
- Calibrates and repairs analytical instrumentation that monitors or controls flow, level, temperature, pressure, acidity, conductivity and humidity
- Services all process control communication networks
- Services environmental and other analytical instruments

## Personal Qualities

- You have good reading comprehension for consulting manuals, reading and interpreting circuit diagrams, blueprints, and schematics
- You have the ability to follow procedures with care in using testing devices to inspect/test instrument and system operation to diagnose faults
- You have good writing skills for composing maintenance reports
- You have dexterity for repairing and adjusting system components, or removing and replacing defective parts
- You have precision skills for calibrating components and instruments and performing scheduled preventive maintenance work
- You have physical endurance for installing control and measurement instruments on existing or new plant equipment
- You have the skills for observing safety in accordance with government and company standards

## Career Opportunities and Other Details

- May be called in emergencies
- Indoor work, mainly on plant floor and often in cramped conditions
- Prolonged periods of standing; exposure to high noise, fumes, and heat levels
- Employers include machinery wholesalers, industrial instrument or chemical manufacturers, steel producers, power companies, and mining/natural gas companies

## Minimum Academic Entry Level for Apprenticeship Registration

Grade 12 graduate or actively participating in high school co-op

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Lambton College

Mohawk College

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

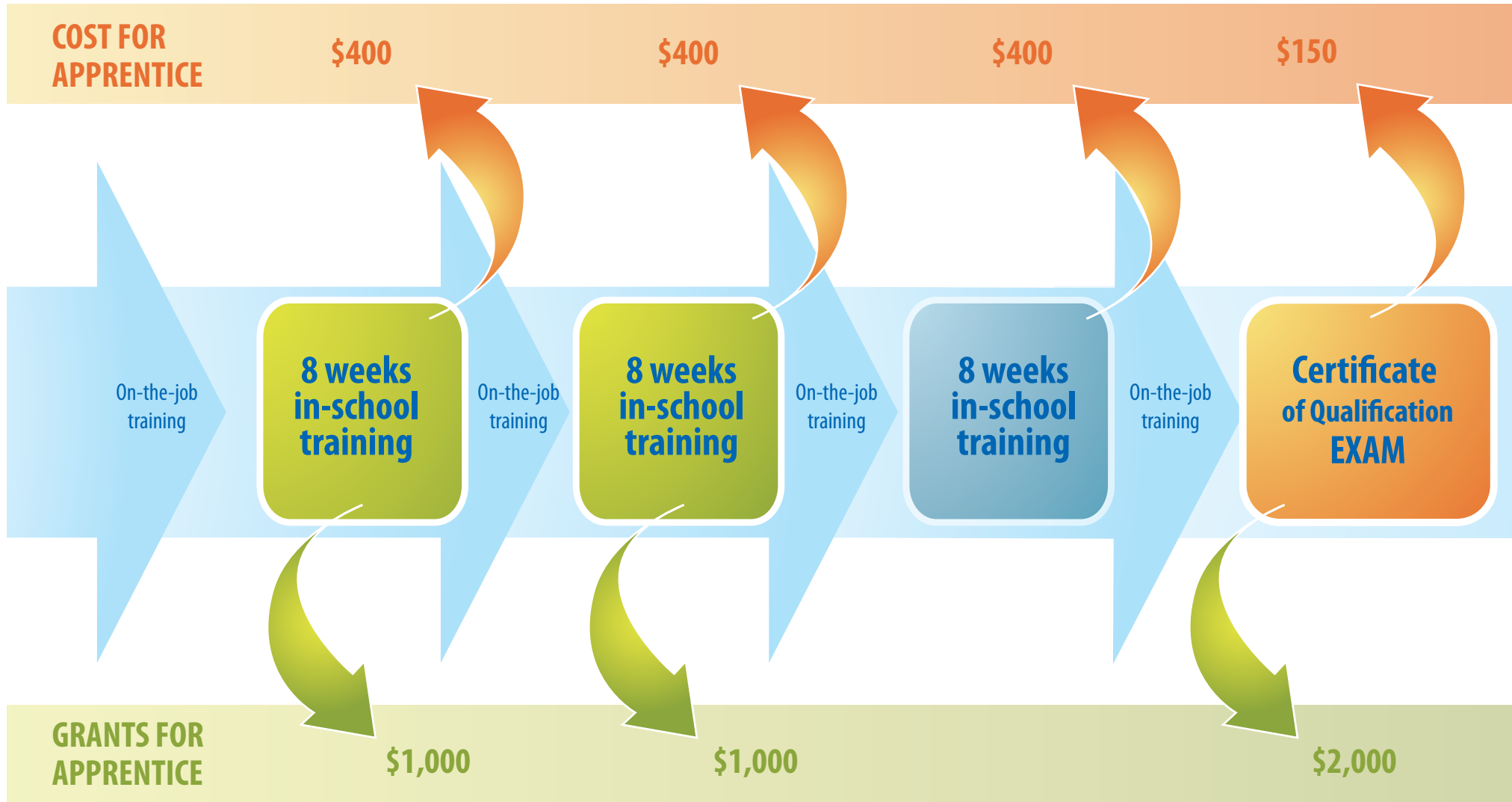
## Unofficial Ways of Referring to This Trade

- Industrial instrument mechanic
- Industrial instrument technician
- Process control equipment mechanic

# Instrumentation and Control Technician

Total training hours (on-the-job + in-school training) = 8,000

447A



# Ironworker – Structural and Ornamental

**Number of Hours:** 5280 hours

**Number of School Sessions:** 3 x 8 weeks (720 hours)

**Red Seal Trade**

**Trade Code:** 420A

**NOC** 72105

**Construction Sector**

## Description

- Reads blueprints and specifications to lay out work
- Unloads and positions steel units so each piece can be hoisted as needed
- Erects and installs scaffolding, hoisting equipment and rigging
- Aligns and welds or bolts steel units in place
- Erects structural and architectural pre-cast concrete components for buildings, bridges, towers and other structures
- Assembles and erects prefabricated metal structures
- Positions and secures steel bars or metal mesh in concrete forms to reinforce concrete structure
- Installs ornamental and other structural metalwork such as curtain walls, metal stairways, railings and power doors

## Personal Qualities

- You are able to work outdoors, sometimes at great heights
- You are an extremely safety conscious person who learns and applies safety rules
- You have a good sense of balance
- You keep calm and cool if things go wrong
- You like challenging work

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities and Other Details

- The majority of ironworkers are employed by construction ironwork contractors
- A significant portion of ironworkers are union members
- Ironwork is essential to most construction jobs

## Minimum Academic Entry Level for Apprenticeship Registration

- The minimum entry for apprenticeship is Grade 10; however, most employers will require Grade 12 with courses in mathematics
- If you have completed 6,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Sault College

Ironworkers Local 721 – Toronto, ON

Ironworkers Local 700 – Maidstone, ON

Ironworkers Local 736 – Ancaster, ON

Ironworkers Local 765 – Metcalfe, ON

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Ornamental ironworker
- Reinforcing ironworker
- Structural steel erector/fitter
- Metal/steel fabricator
- Plate metal fitter







# Machine Tool Builder and Integrator

**Number of Hours:** 7,280 hours  
**Number of School Sessions:** 3 x 8 weeks (720 hours)

**Trade Code:** 430M  
**NOC** 72405  
**Industrial Sector**

## Description

- Reads and interprets complex engineering drawings, schematics, bill of materials, machine-tool build assembly drawings
- Uses lathes, mills, saws, drills, grinders and welding equipment to build and prepare tooling
- Performs Numerically Controlled (NC) and Computerized Numerical Control (CNC) machining
- Devises and details assembly plans for the machine-tool build and integrator process
- Assembles and integrates pneumatics and hydraulics, electrical components, power transmission systems, conveyor systems, and feeder systems
- Sub-assembles machine tool components
- Integrates main-assembly
- Builds in-process tooling

## Personal Qualities

- You enjoy working to close and exacting tolerances
- You enjoy working with your hands
- You can work indoors with noise, vibrations and other hazards that are common on the job
- You have the stamina to be on your feet for long periods of time
- You like to learn new things on a consistent basis
- You like using computers

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

Machine-tool builder and integrators are employed primarily in manufacturing industries

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- If you have completed 8,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Conestoga College  
Sheridan College  
Mohawk College

St. Clair College  
Georgian College – Barrie  
St. Lawrence College

Level 1, known as Precision Machining and Tooling Common Core, is common with 429A General Machinist; 430A Tool and Die Maker; 431A Mould Maker; 443A Pattern Maker; 630T Tool/Tooling Maker. For common core levels, check listings under the other trades for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

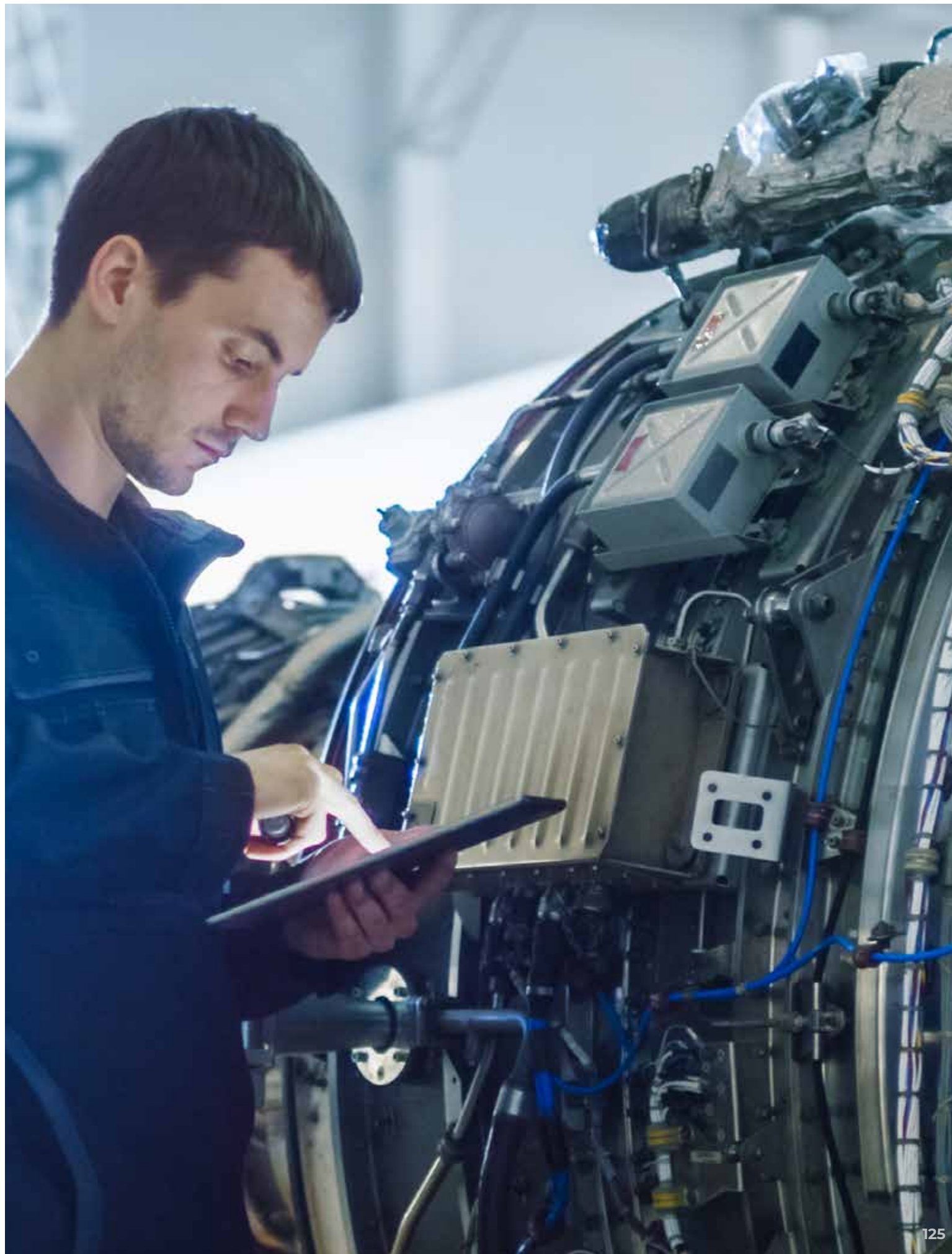
Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Aircraft engine fitter
- Assembly fitter
- Precision in-process tool builder
- Machine integration processor
- Mechanical fitter





# Marine Engine Technician

**Number of Hours:** 4,280 hours  
**Number of School Sessions:** 3 x 8 weeks (720 hours)

**Trade Code:** 435B  
**NOC** 72423  
**Motive Power Sector**

## Description

- Reviews work orders and discusses work to be performed with supervisor
- Performs scheduled maintenance service on equipment
- Determines estimates of repair cost
- Operates boats and boat handling equipment
- Maintains and repairs engines and engine components
- Installs engines and components including electrical and hydraulic systems
- Maintains and repairs drive systems
- Installs, maintains and repairs boat systems and accessories
- Tests and adjusts repaired equipment for proper performance
- Advises customers on work performed and general condition of equipment

## Personal Qualities

- You like working around marine engines and boats
- You are able work indoors and outdoors
- You enjoy working to close and exacting tolerances
- You have the stamina to be on your feet for long periods of time and must bend down and crouch frequently
- You show initiative and persistence
- You like to learn new things on a consistent basis
- You are willing to make a significant investment in tools
- You like working with computerized equipment

## Career Opportunities

Marine engine technicians are employed by engine manufacturers, marine brokers, marinas, yacht clubs, and marine service providers

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- If you have completed 5,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Georgian College

Canadore College

Levels 1 and 2 are common with 435A Small engine; 421C Turf equipment technician. For common core levels, check listings under the other trades for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

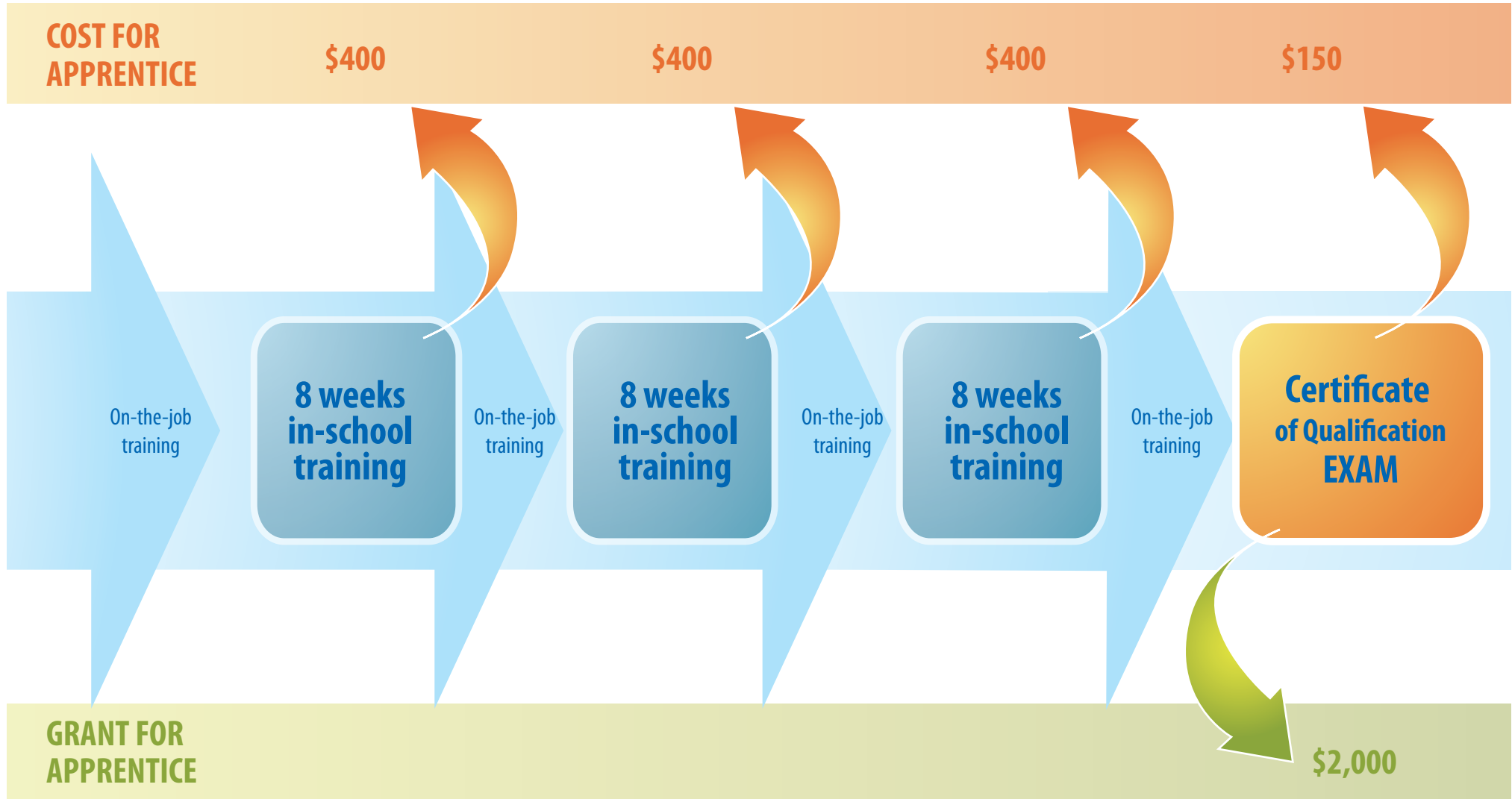
- Motor boat mechanic
- Outboard motor mechanic
- Small engine technician
- Small equipment mechanic
- Small equipment repairer

NON-COMPULSORY

# Marine Engine Technician

Total training hours (on-the-job + in-school training) = 5,000

435B



# Metal Fabricator (Fitter)

**Number of School Sessions:** 2 sessions – 1 x 10 weeks + 2 x 7 weeks (720 hours)

**Red Seal Trade**

**Trade Code:** 437A

**NOC** 72104

**Industrial Sector**

## Description

- Interprets drawings involving the development, layout, marking, cutting, burning, sawing, shearing, punching, rolling, bending, drilling, shaping, forming, straightening, fitting and assembling, reaming, bolting, riveting, welding, testing, inspecting, preparing, priming, painting, rigging and handling of structural and mechanical fabrications constructed from plates and structural shapes of ferrous and non-ferrous metals
- Fits, assembles and installs steel or metal components for: buildings, bridges, tanks, towers, boilers and pressure vessels
- Sets up and operates various heavy-duty metalworking machines

## Personal Qualities

- You are able to tolerate high levels of noise, smell and dirt
- You are able to work shifts, if required, but a typical work week is 40 hours
- You are able to work both indoors and outdoors
- You have physical strength and stamina
- You have a mechanical aptitude
- You have good co-ordination and manual dexterity

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

Metal fabricators are employed in a wide variety of work environments, including boiler fabrication plants, heavy-machinery manufacturing companies, plate work fabrication plants, ship building companies, and structural-steel fabrication plants

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Completion of a 4,680-hour apprenticeship program is required
- If you have completed 5400 hours of on-the-job experience/training but you have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Conestoga College  
Cambrian College  
Durham College  
Niagara College  
A.P.R. Welding Academy – Sault Ste. Marie  
Canadore College  
Technical Training Group (Stratford and Area)  
U.A. Local 67  
M.C.A. Zone 9  
9 Apprenticeship Committee  
UA Local 527 Collège Boréal

Level 1 is common with 456A Welder. For common core levels, check listings under the other trade for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

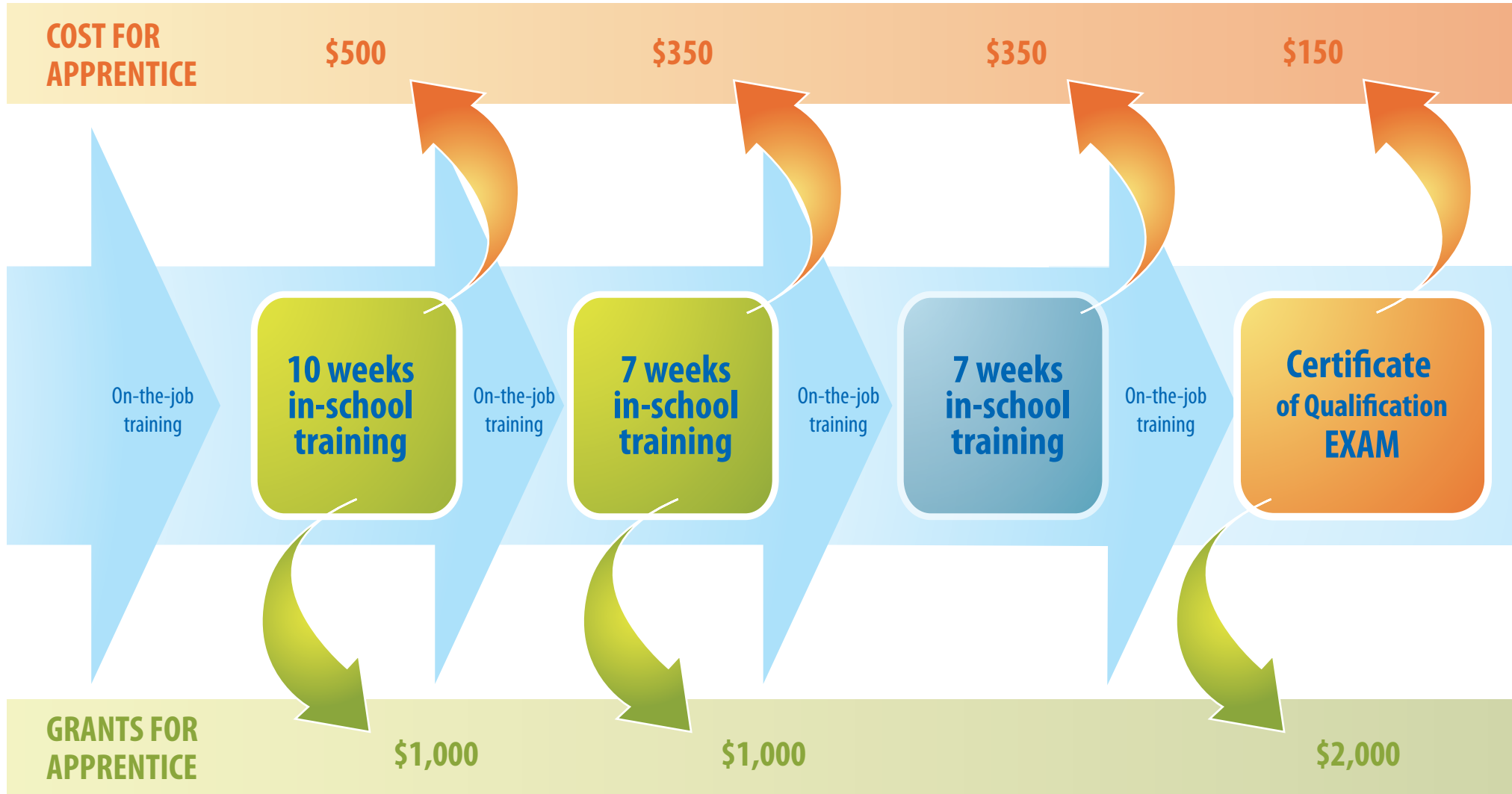
- Plate metal fitter
- Fitter
- Steel fabricator
- Structural steel fitter

NON-COMPULSORY

# Metal Fabricator (Fitter)

Total training hours (on-the-job + in-school training) = 5,400

437A





# Motorcycle Technician

**Number of Hours:** 5,520 hours  
**Number of School Sessions:** 2 x 8 weeks (480 hours)  
**Compulsory Trade/Red Seal Trade**

**Trade Code:** 310G  
**NOC** 72423  
**Motive Power Sector**

## Description

- Reviews work orders and discusses work to be performed with supervisor
- Inspects and tests engine using test devices to diagnose and isolate faults
- Determines estimates of repair cost
- Diagnoses and repairs fuel injection, carburetor system, drive line, steering system, front and rear suspension, mechanical braking system, hydraulic braking system, ignition system, charging system, frames, tires and wheels
- Tests and adjusts repaired systems for proper performance
- Performs scheduled maintenance service on equipment
- Advises customers on work performed and general condition of motorcycle

## Personal Qualities

- You are able to work with computerized equipment
- You are able to work with your hands and do not mind getting them dirty
- You are able to work indoors and sometimes outside with noises, grease and oil
- You are able to work to close and exacting tolerances
- You have the stamina to be on your feet for long periods of time and must bend down and crouch frequently
- You are not bothered by standing on concrete all day
- You like to learn new things on a consistent basis
- You are willing to make a significant investment in tools

## Career Opportunities

- Motorcycle mechanics are employed at motorcycle dealerships and other repair facilities
- Some motorcycle mechanics have their own business

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- If you have completed 6,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Centennial College

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

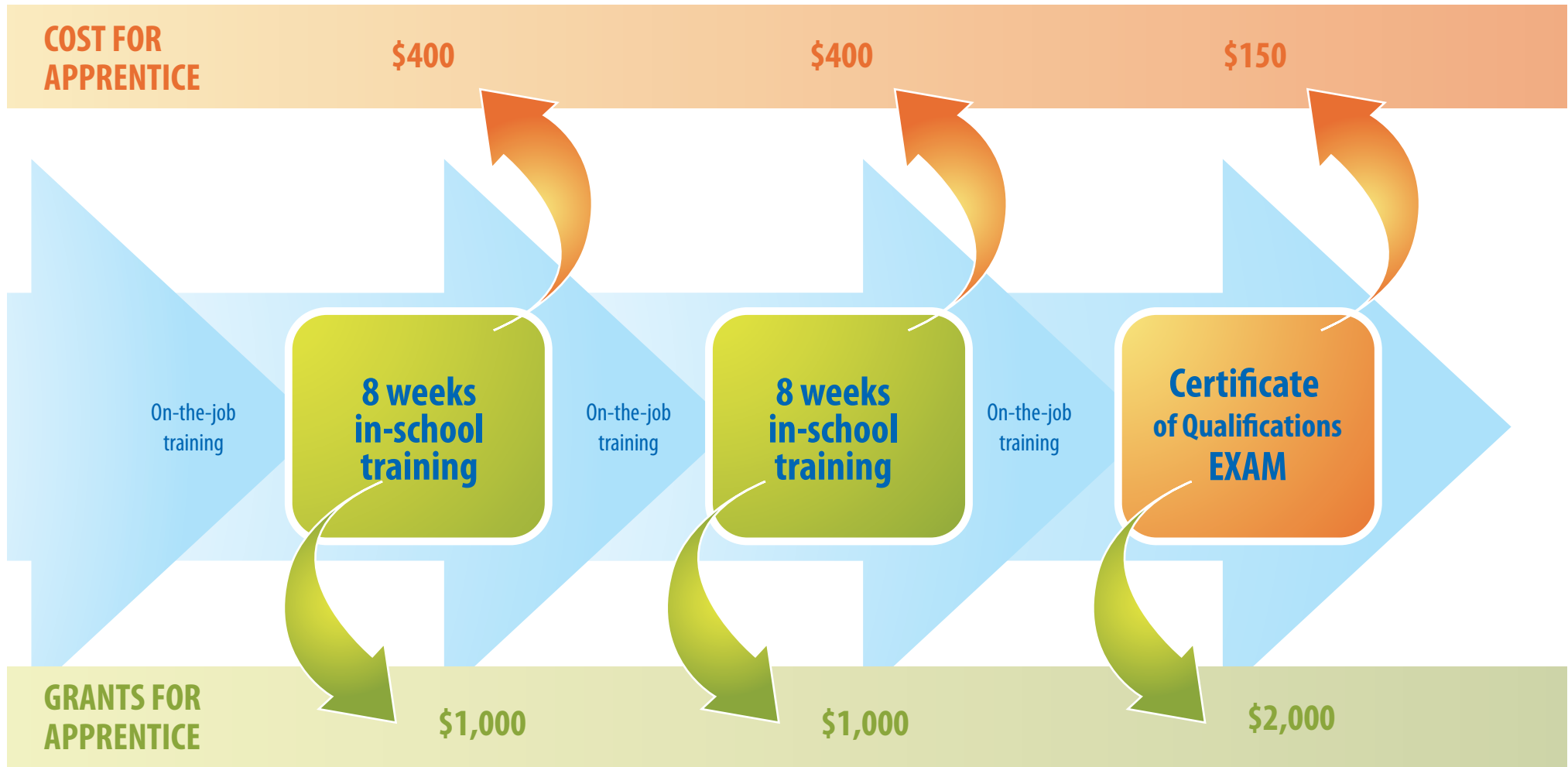
Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Dirt bike repairer
- Motorcycle mechanic
- Industrial truck repairer
- Motor scooter repairer

# Motorcycle Technician

Total training hours (on-the-job + in-school training) = 6,000



# Mould Maker

**Number of Hours:** 7,280

**Number of School Sessions:** 3 x 8 weeks

**Trade Code:** 431A

**NOC** 72101

**Industrial Sector**

## Description

- Reads and interprets complex engineering drawings, pattern drawings, and work process documentation
- Designs, makes, and repairs moulds and models used to mass produce plastic or metal components or products
- Builds precision mould components using metal-cutting machines and equipment including saws, drills, grinders, lathes, mills, and electrical discharge machines (EDMs)
- Performs work in-process measuring and checking using specialized and precision tools and equipment

## Personal Qualities

- You are able to work indoors with noise, vibrations and other hazards that are common on the job
- You are able to work to close and exacting tolerances
- You have the stamina to be on your feet for long periods of time
- You like to learn new things on a consistent basis
- You enjoy working with your hands
- You enjoy using computerized equipment

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

Mould makers are employed primarily in large and small manufacturing industries such as automobile, aircraft, metal fabrication, electrical machinery and plastics, and in tool and die, mould making and machine shops

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- If you have completed 8,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Conestoga College	St. Clair College
Fanshawe College	Sheridan College
Georgian College	Mohawk College

Level 1, known as Precision Machining and Tooling Common Core, is common with 429A General Machinist; 430A Tool and Die Maker; 443A Pattern Maker; 430M Machine Tool Builder and Integrator; 630T Tool/Tooling Maker. For common core levels, check listings under the other trades for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

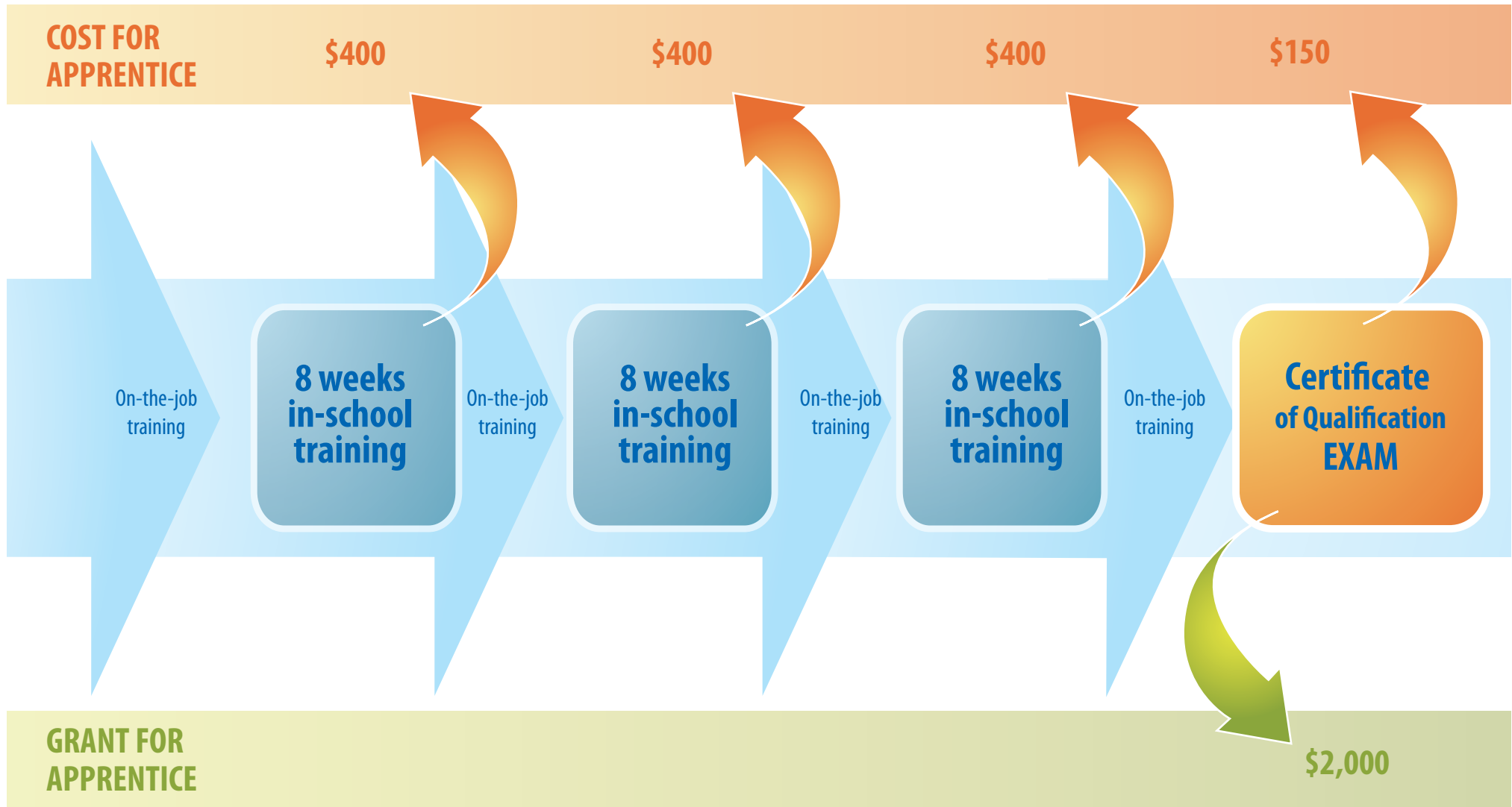
## Unofficial Ways of Referring to This Trade

- Jig maker
- Metal mould maker
- Metal patternmaker
- Tool and die maker
- Tool maker

# Mould Maker

Total training hours (on-the-job + in-school training) = 8,000

431A



# Native Residential Construction Worker

**Number of Hours:** 4,000 hours  
**Number of School Sessions:** 2 x 8 weeks (480 hours)

**Trade Code:** 296A  
**NOC** 75110  
**Construction Sector**

## Description

Works in all aspects of constructing a First Nation home, including site planning, excavation, foundations, framing, roofing, interior and exterior finishing

## Personal Qualities

- You pay attention to detail, even the smallest details
- You are able to make things level and square
- You have manual dexterity
- You have mathematics skills
- You have excellent problem-solving skills
- You have stamina for physical indoor and outdoor working conditions

## Career Opportunities and Other Details

- Full-time (35-40 hrs); may work project-by-project or for construction company
- Indoor and outdoor work; may be exposed to variety of weather conditions and noise
- Must be willing to travel to where work is
- Employers include residential developers, construction firms, and contractors

## Minimum Academic Entry Level for Apprenticeship Registration

Minimum entry for this apprenticeship is a Grade 12 diploma. The exception to this is if you are actively enrolled in high school cooperative education or an Adult Learning Centre with a co-op placement in this trade, and you have an employer willing to register you as an apprentice. Ask a guidance counsellor or your co-op teacher about the Ontario Youth Apprenticeship Program. The Ontario Youth Apprenticeship Program has no upper age limit.

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Kiikenomaga Kikenjigewen Employment and Training Services – Thunder Bay

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journey person's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)





# Network Cabling Specialist

**Number of Hours:** 4,000 hours

**Number of School Sessions:** 2 sessions x 288 hours (576 hours)

**Trade Code:** 631A

**NOC** 72204

**Service Sector**

## Description

- Plans and prepares for installation by reading and interpreting job reference material, selecting hand/power tools and testing equipment, performing site inspections, selecting/verifying cable pathways/spaces and performing trade calculations
- Performs cable installations inside and outside plants by laying out and creating openings for cable pathways, installing pulling medium in cable pathways, laying out and installing cable and supports, inspecting and preparing cables for installation, and installing fibre backbone and copper cables, horizontal cables and fire stop systems
- Terminates/splices cables by installing mounting equipment, fibre and copper terminating and splicing components, electrical protection equipment, grounding, bonding connections/cables, cross connecting and patching cables
- Performs labelling, testing and documentation by labelling cable systems as Unshielded Twisted Pair (UTP), Shielded Twisted Pair (STP), Screened Twisted Pair (ScTP) and completing field documentation
- Performs internet-working installation by confirming networking needs and identifying, selecting, installing and testing internet-working hardware and components
- Troubleshoots cable systems/hardware by identifying and repairing UTP/STP/ScTP, coaxial cable systems, equipment connecting cables and fibre optic systems
- Performs professional business practices and effective communication with customers

## Personal Qualities

- You can tolerate some repetitive work
- You are able to work in cramped areas or at heights, if required
- You are able to work outside at various times of the year and experience a range of environmental conditions, if required
- You have the stamina to be on your feet for long periods of time
- You are safety conscious
- You are willing to keep up with technological change

## Career Opportunities and Other Details

- Construction firms, telecommunications carriers, electric power utilities, radio and TV/cable communications companies, wholesale trade, and electrical/electronic products companies employ network cabling specialists
- Network cabling specialists are required to keep pace with new equipment, new work specifications and ever-changing technology

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Completion of a 4,000-hour apprenticeship program is required.
- If you have completed 4,500 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

International Brotherhood of Electrical Workers Local 105  
International Brotherhood of Electrical Workers Local 353  
IBEW 402 TEC – Thunder Bay

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

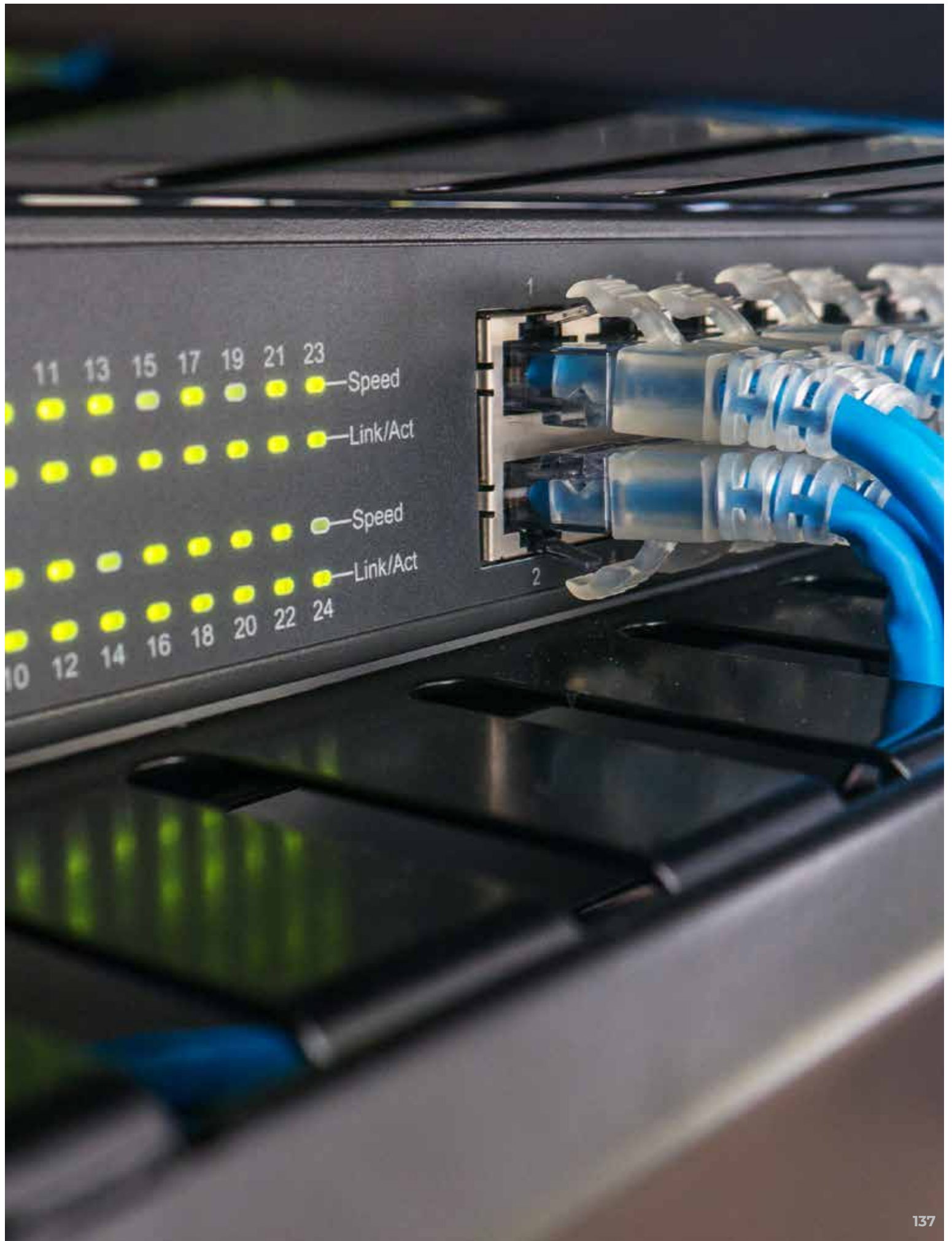
## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)  
Financial incentives for employers sponsoring apprentices [www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Lineperson, telecommunications
- Splicer technician, telephone
- Telecommunications line installer
- Telephone line technician
- Cable repairer, telecommunications





# Optics Technician (Lens and Prism Maker)

**Number of Hours:** 7,900 hours  
**Number of School Sessions:** 1 x 3.3 weeks (100 hours)

**Trade Code:** 225A  
**NOC** 92024  
**Industrial Sector**

## Description

- Produces precision spherical and plane optics to specifications
- Corrects lens/prisms surfaces to optimum quality
- Checks with interferometer and spectrometer
- Inspects, cements, and aligns optical components to optical axes
- Coats optics with anti-reflecting or high reflecting coats

## Personal Qualities

- You enjoy working with your hands using a variety of tools and equipment
- You have good hand-eye coordination and finger dexterity
- You are able to follow health & safety guidelines in pristine environment
- You enjoy learning about and applying mathematical formulae, lens and prism principles and techniques
- You enjoy keeping up with and learning about new technology and materials
- You pay good attention to detail
- You can spot flaws in different materials
- You have excellent time management skills
- You are an organized person

## Career Opportunities and Other Details

- Work full-time, sometimes in shifts; indoor work in manufacturing settings
- Must work to exacting specifications
- Employers include optical retail stores, full-service labs, the aerospace industry, and industrial or camera manufacturers

## Minimum Academic Entry Level for Apprenticeship Registration

Grade 12 graduate or participating in high school co-op

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

In-house training by the employer

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Lends grinder
- Industrial optometrist assistant

# Optics Technician (Lens and Prism Maker)

Total training hours (on-the-job + in-school training) = 8,000

225A

**COST FOR  
APPRENTICE**

**\$0 Sponsor-Led**

On-the-job  
training

**3.3 weeks  
in-school  
training  
100 hours**

On-the-job  
training

**Certificate  
of Apprenticeship**

**GRANT FOR  
APPRENTICE**

**\$2,000**

This certified non-compulsory Ontario trade was sponsor-developed to meet the training needs specific to Raytheon ELCAN, a division of Raytheon Intelligence and Space, US. They are a fully-integrated high precision optics, opto-mechanical and electronics manufacturing company located in Midland, Ontario.



# Painter and Decorator – Commercial and Residential

**Number of Hours:** 5280 hours

**Number of School Sessions:** 3 x 8 weeks (720 hours)

**Red Seal Trade**

**Trade Code:** 404C

**NOC** 73112

**Construction Sector**

## Description

- Reads and interprets blueprints, specifications and other instructions to determine quantities of the materials required
- Prepares and cleans surfaces using methods such as scraping, sanding, sand-blasting, hydro-blasting and steam-cleaning; removes old wallpaper and loose paint; repairs cracks and holes in walls, apply sealer
- Mixes and thins paint to obtain desired colour and texture
- Applies paint or other materials, such as stains, lacquer, enamel, oil, varnish, fibreglass, metal coating or fire retardant using brushes, rollers or spray equipment
- Measures, cuts and applies wallpaper or fabric to walls
- Assembles and erects scaffolding and swing gates
- Advises customer on selection of colour schemes and choice of wall coverings
- Is able to prepare surfaces in industrial applications
- Provides cost estimates to clients

## Personal Qualities

- You are comfortable working on ladders much of the time
- You are able to work in cramped areas or at considerable heights
- You are able to work outside at various times of the year and experience a considerable range of environmental conditions
- You can work bending down, stretching from side to side and often with your arms over your head
- You have the stamina to be on your feet for long periods of time
- You work with attention to detail
- You are in good physical condition

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities and Other Details

- Journeypersons work for small, medium and large companies in the residential, industrial, commercial and institutional sectors or indirectly for those companies through contractors
- Many painters own their own business
- Painters work in union and non-union environments

## Minimum Academic Entry Level for Apprenticeship Registration

- The minimum entry for apprenticeship is Grade 10;

however, Grade 12 is recommended with courses in visual arts, mathematics and entrepreneurship

- Several colleges offer two-year co-op programs in interior decorating, continuing education (certificate) programs which may be beneficial
- Completion of a 3-year apprenticeship program at 2,000 hours per year
- If you have completed 6,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Ontario Industrial & Finishing Skills Centre – Toronto, ON  
Finishing Trades Institute of Ontario – Toronto

Levels 1 and 2 are common with 404D Painter and Decorator – Industrial. For common core levels, check listings under the other trade for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journey person's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

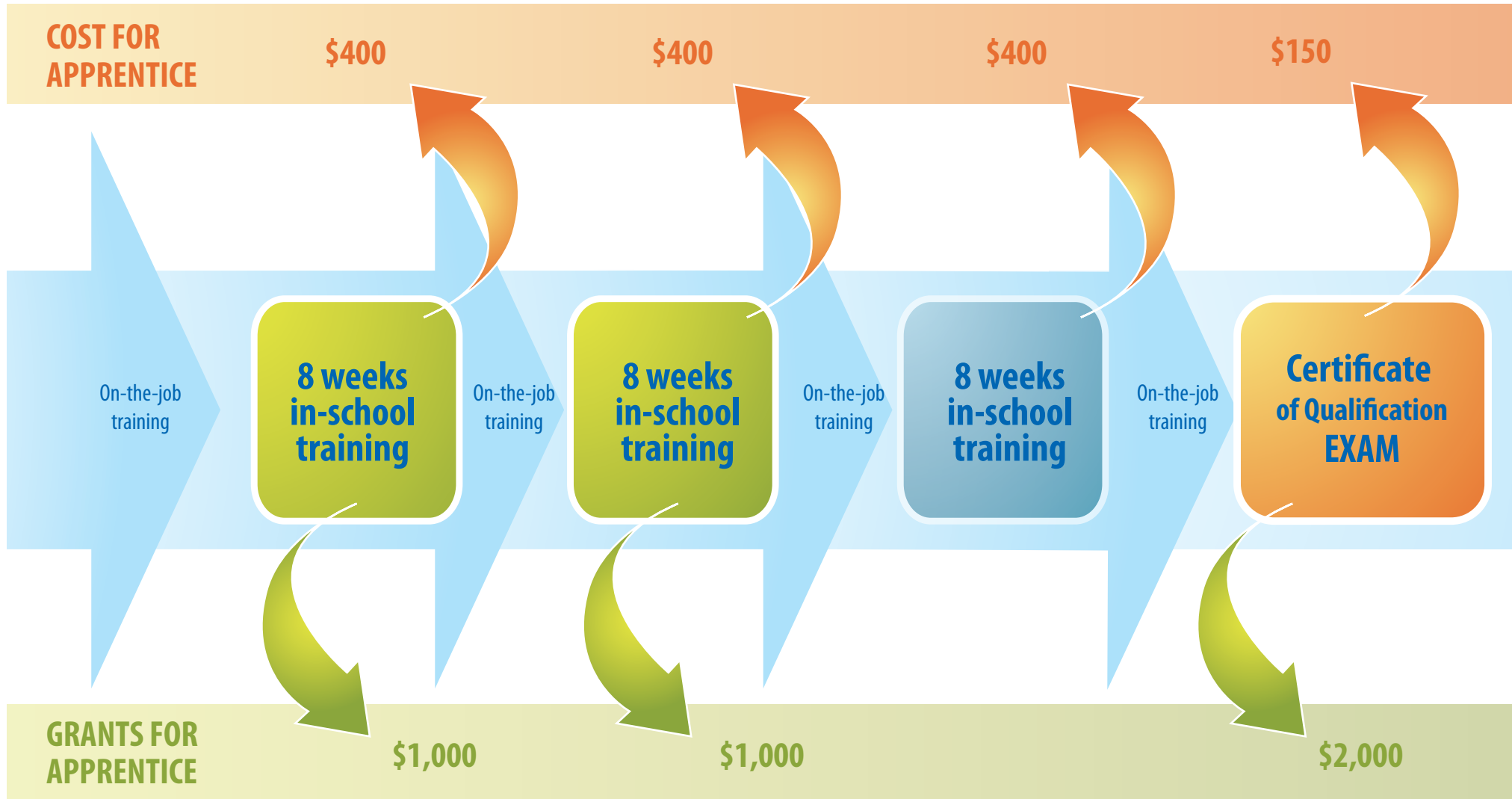
## Unofficial Ways of Referring to This Trade

- Construction painter
- Maintenance painter
- Painter & decorator
- Paperhanger

# Painter and Decorator – Commercial and Residential

NON-COMPULSORY

Total training hours (on-the-job + in-school training) = 6,000



# Painter and Decorator – Industrial

**Number of Hours:** 5,280 hours  
**Number of School Sessions:** 3 x 8 weeks (720 hours)

**Trade Code:** 404D  
**NOC** 73112  
**Construction Sector**

## Description

- Is responsible for understanding and practicing safety precautions to protect yourself and others
- Uses and maintains access equipment
- Is able to prepare the site for product application
- Applies coatings and linings
- Assembles and erects scaffolding and swing gates
- Provides cost estimates to clients
- Is responsible for practicing quality control

## Personal Qualities

- You are comfortable working on ladders much of the time
- You are able to work in cramped areas or at considerable heights, if required
- You are able to work outside at various times of the year and experience a considerable range of environmental conditions
- You can work bending down, stretching from side to side and often with your arms over your head
- You have the stamina to be on your feet for long periods of time
- You work with attention to detail
- You are in good physical condition

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities and Other Details

- Journeypersons work for small, medium and large companies in the residential, industrial, commercial and institutional sectors or indirectly for those companies through contractors
- Many painters own their own business
- Painters work in union and non-union environments

## Minimum Academic Entry Level for Apprenticeship Registration

- The minimum entry for apprenticeship is Grade 10; however Grade 12 is recommended with courses in visual arts, mathematics and entrepreneurship
- Several colleges offer two-year co-op programs in interior decorating, continuing education (certificate) programs which may be beneficial
- Completion of a 3-year apprenticeship program at 2,000 hours per year

- If you have completed 6,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Ontario Industrial & Finishing Skills Centre – Toronto, ON  
Finishing Trades Institute of Ontario – Ancaster

Levels 1 and 2 are common with 404C Painter and Decorator – Commercial and Residential. For common core levels, check listings under the other trade for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Construction painter
- Maintenance painter
- Painter & decorator
- Paperhanger





# Parts Technician

**Number of Hours:** 5,460 hours  
**Number of School Sessions:** 2 x 9 weeks (540 hours)  
**Red Seal Trade**

**Trade Code:** 240P  
**NOC** 14401  
**Service Sector**

## Description

- Receives and sorts incoming parts and supplies
- Reconciles calculated inventory with physical counts
- Prepares, maintains and updates purchasing files, reports and price lists
- Stores items in an orderly and accessible manner in a warehouse, tool room, parts room, or other area
- Processes incoming requisitions and issues or distributes parts and supplies for internal usage
- Maintains records of orders and the amount, kind and location of parts supplies on hand using manual or computerized inventory system
- Prepares requisition orders to replenish parts and supplies
- Provides customer support service and merchandising by selling spare and replacement parts for motor vehicles, machinery and equipment in a retail setting in person, over the telephone or Internet
- Advises retail customers or internal users on appropriateness of parts, supplies or materials requested
- Manages and processes returns

## Personal Qualities

- You are computer literate and enjoy working with computerized equipment
- You pay close attention to detail
- You enjoy working indoors
- You have the stamina to be on your feet for long periods of time and are able to bend down and reach up frequently
- You are able to lift and carry parts of various sizes and weights
- You are not bothered by standing on concrete all day
- You like working independently or as a member of a team to provide service both in-house and to the public

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities and Other Details

- A parts person may work for motor vehicle parts manufacturers, motor vehicle manufacturers, motive power repair shops and retail parts establishments
- A parts person will generally work in a warehouse, tool room or parts room, and if in a retail environment, may work behind a counter and serve the public

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Completion of a 5,460-hour apprenticeship program is required
- If you have completed 6,000 hours of on-the-job experience/training but have not completed the apprenticeship training you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Sault College    Centennial College

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Automotive parts person
- Motor vehicle parts clerk
- Parts /inventory clerk



NON-COMPULSORY

# Parts Technician

Total training hours (on-the-job + in-school training) = 6,000

240P



# Pattern Maker

**Number of Hours:** 7,280 hours  
**Number of School Sessions:** 3 x 8 weeks (720 hours)

**Trade Code:** 443A  
**NOC** 72101  
**Industrial Sector**

## Description

- Reads and interprets complex engineering drawings, pattern drawings, and work process documentation
- Designs and creates foundry patterns and core boxes from metal, wood, plastic, and polystyrene for parts and components cast from metal
- Builds precision pattern tooling using wood and metal cutting machines and equipment including saws, drills, grinders, lathes, mills, and electrical discharge machines (EDMs)
- Performs work in process measuring and checking using specialized and precision tools and equipment
- May program CNC machine tools

## Personal Qualities

- You are able to work indoors with noise, vibrations and other hazards that are common on the job
- You enjoy working to close and exacting tolerances
- You have the stamina to be on your feet for long periods of time
- You like to learn new things on a consistent basis
- You like working with computers

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

- Pattern makers are employed primarily by small and large companies in manufacturing industries such as automobile, aircraft, metal fabrication, electrical machinery and plastics, and in tool and die, mould making and machine shops
- Pattern makers may also be employed in specialty pattern making and model making establishments

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Completion of a 7,280-hour apprenticeship program is required
- If you have completed 8,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Sheridan College	Conestoga College
Mohawk College (L01)	Georgian College (L01)
Sheridan College (L01)	St. Clair College

Level 1, known as Precision Machining and Tooling Common Core, is common with 429A General Machinist; 430A Tool and Die Maker; 431A Mould Maker; 430M Machine Tool Builder and Integrator; 630T Tool/Tooling Maker. For common core levels, check listings under the other trades for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

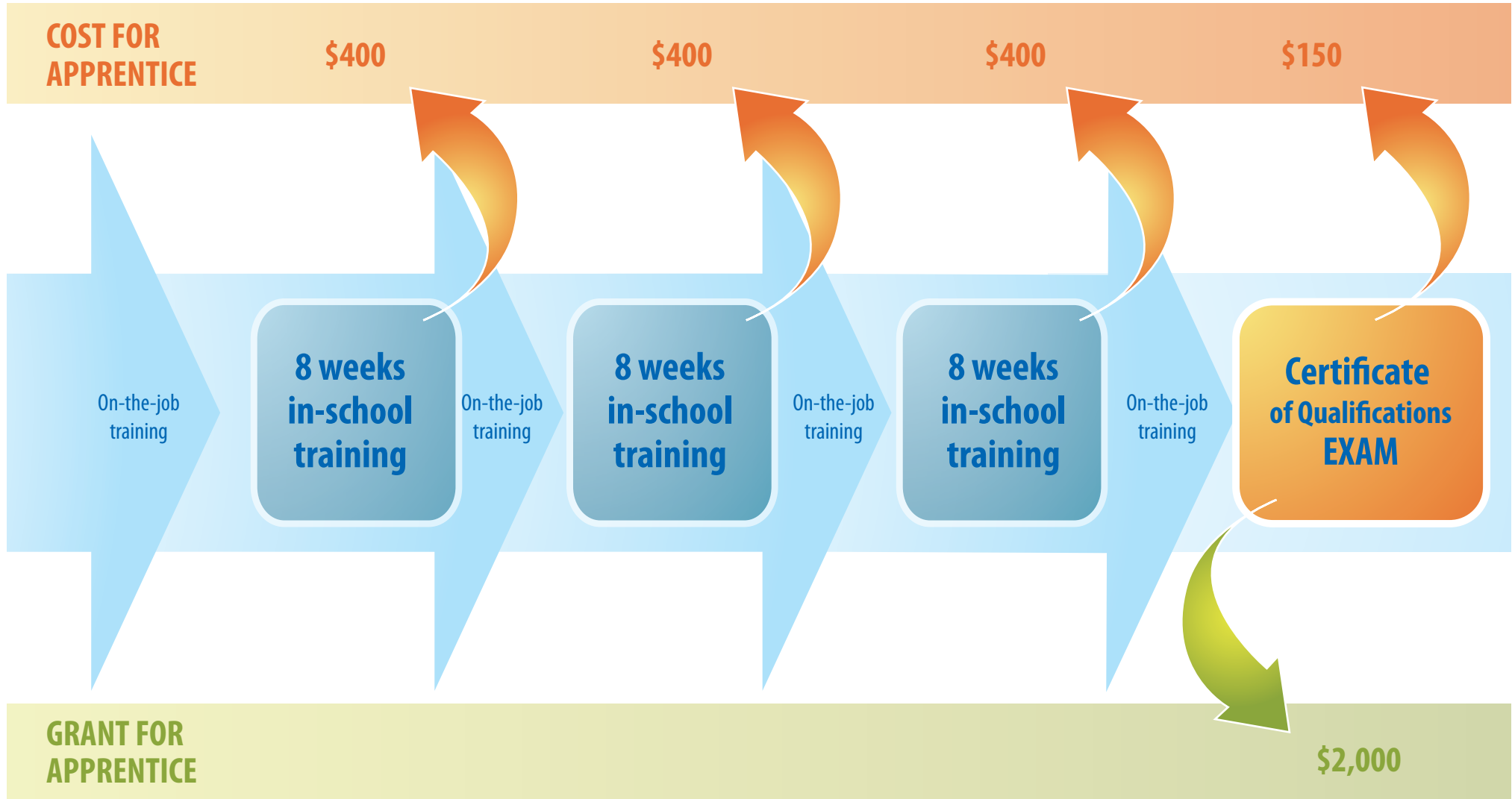
- Metal mould maker
- Metal patternmaker
- Tool and die maker
- Tool maker
- Jig maker

NON-COMPULSORY

# Pattern Maker

Total training hours (on-the-job + in-school training) = 8,000

443A



Materials used: metal, wood, plastic and polystyrene for parts and components cast from metal.

# Plumber

**Number of Hours:** 8,280 hours  
**Number of School Sessions:** 3 x 8 weeks (720 hours)  
**Compulsory Trade/Red Seal Trade**

**Trade Code:** 306A  
**NOC** 72300  
**Construction Sector**

## Description

- Installs, repairs, and maintains pipes, fixtures and other plumbing equipment used for water distribution and wastewater disposal in new construction or existing residential, commercial and industrial buildings
- Installs the piping for any process, including the conveyance of gas, or any tubing for a pneumatic or air handling system
- Reads and understands design drawings, manufacturer's literature and installation diagrams for piping and connected appliances

## Personal Qualities

- You are able to work in cramped areas or at considerable heights, if required
- You are able to work outside at various times of the year and experience a considerable range of environmental and olfactory conditions
- You have the stamina to be on your feet for long periods of time
- You are in good physical condition and are able to carry materials and fixtures

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities and Other Details

- Small, medium and large companies employ plumbers on a variety of projects
- Some plumbers and companies specialize in either the residential, commercial, industrial or institutional sector
- Some large industries employ maintenance plumbers
- Many plumbers have their own business

## Minimum Academic Entry Level for Apprenticeship Registration

- The minimum entry for apprenticeship is Grade 10; however, most employers and unions require Grade 12 with courses in mathematics and physics
- Completion of a 5-year apprenticeship program at 1,800 hours per year
- If you have completed 9,000 hours but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Durham College	La Cité Collégiale
Algonquin College	Mohawk College
Conestoga College	St. Clair College
Fanshawe College	St. Lawrence College
George Brown College	Sault College
Humber College	Canadore College
Collège Boréal	Georgian College – Midland
JTAC Local 46	Sheridan College
Fleming College – Sutherland	

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

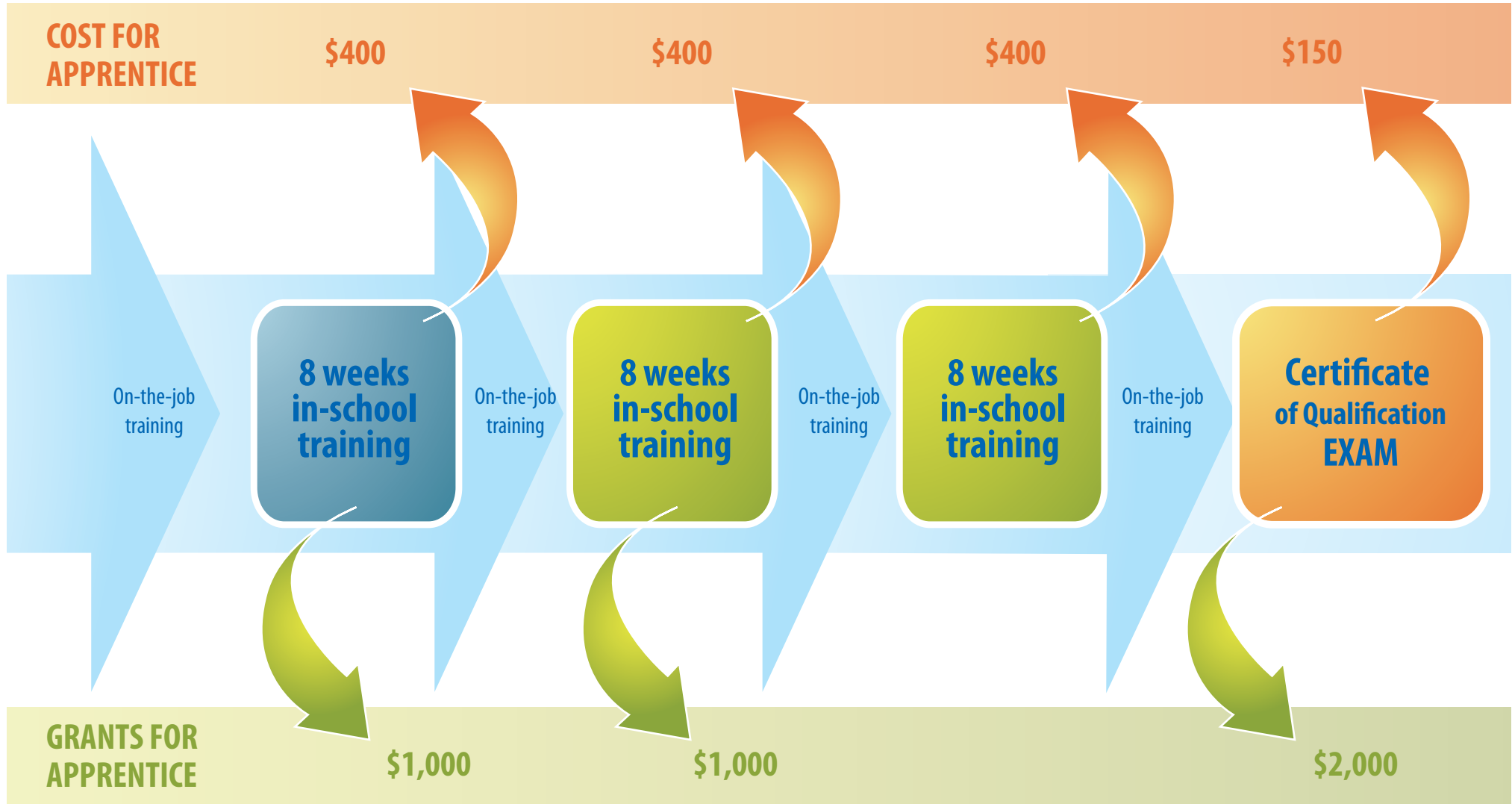
## Unofficial Ways of Referring to This Trade

- Maintenance plumber
- Plumbing mechanic
- Radiator plumber
- Residential construction plumber

# Plumber

Total training hours (on-the-job + in-school training) = 9,000

306A





# Powered Lift Truck Technician

**Number of Hours:** 6,280 hours  
**Number of School Sessions:** 3 x 8 weeks (720 hours)

**Trade Code:** 282E  
**NOC** 72423  
**Motive Power Sector**

## Description

- Troubleshoots and repairs engines, fuel systems (gas, propane, dual fuel, diesel)
- Troubleshoots and repairs electrical systems and electrical vehicle control systems
- Troubleshoots and repairs vehicle power trains (power shift transmissions, torque converters, pumps and linkages)
- Troubleshoots and repairs brake systems, steering systems, hydraulic systems
- Troubleshoots and repairs masts and systems

## Personal Qualities

- You are able to work indoors with grease, oil, gasoline and propane
- You enjoy working to close and exacting tolerances
- You have the stamina to be on your feet for long periods of time and are able to bend and straighten frequently
- You are not bothered by standing on concrete all day
- You have and use physical strength on the job
- You like to learn new things on a consistent basis
- You are willing to make an investment in tools
- You like working with computerized equipment
- You are able to fix lift trucks at various work site locations, if required

## Career Opportunities

- Powered lift truck technicians for the most part are employed by small or medium sized companies
- Powered lift truck technicians may have their own business

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Completion of a 6,280-hour apprenticeship program is required
- If you have completed 7,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Algonquin College  
Mohawk College

Conestoga College  
St. Clair College

Level 1, known as Commercial Vehicle and Equipment Common Core, is common with 425A Agricultural Equipment Technician; 421A Heavy Duty Equipment Technician; 310T Truck and Coach Technician. For common core levels, check listings under the other trades for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

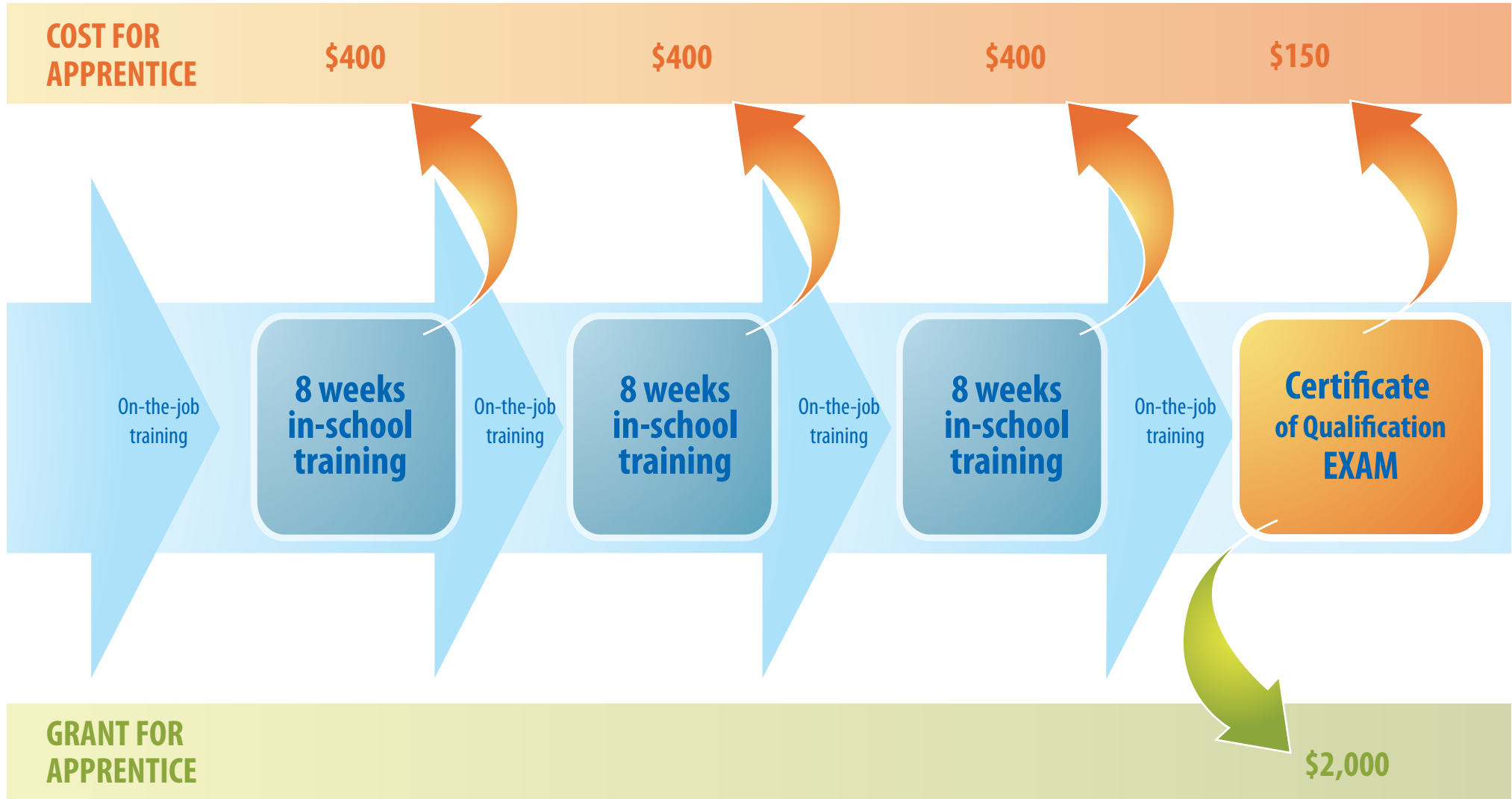
- Forklift mechanic
- Industrial truck repairer
- industrial truck mechanic

NON-COMPULSORY

# Powered Lift Truck Technician

Total training hours (on-the-job + in-school training) = 7,000

282E



# Powerline Technician

**Number of Hours:** 7,617 hours

**Number of School Sessions:** 4 x 2 weeks (383 hours)

**Red Seal Trade**

**Trade Code:** 434A

**NOC** 72203

**Construction Sector**

## Description

- Installs, maintains, troubleshoots and repairs electrical distribution and transmission systems including overhead and underground power lines and cables, insulators, conductors, lightning arrestors, switches, transformers and other associated equipment
- Erects and maintains steel, wood or concrete poles, towers and guy wires
- Splices, solders and insulates conductors and related wiring to connect power distribution and transmission networks using splicing tools, related electrical equipment and tools
- Inspects and tests overhead and underground power lines and cables and auxiliary equipment using electrical test equipment
- Climbs ladders or operates hydraulic buckets when working aloft on poles and towers, or works in confined spaces such as trenches and tunnels to install power lines and cables and associated equipment
- Installs and maintains street lighting systems

## Personal Qualities

- You are able to work in cramped areas or at considerable heights, if required
- You are able to work outside at various times of the year and experience a range of environmental conditions
- You have the stamina to be on your feet for long periods of time
- You are extremely safety conscious
- You are in good physical condition to carry materials

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities and Other Details

- Journeypersons work for electric power generation, transmission and distribution companies, electrical contractors and public utility commissions (e.g., Hydro One)
- Powerline technicians work for small and medium companies that do work for utilities
- Powerline technicians may work for municipal utility companies
- Many powerline technicians belong to the Canadian Union of Skilled Workers
- Some powerline technicians have their own business

## Minimum Academic Entry Level for Apprenticeship Registration

- The minimum entry for apprenticeship is Grade 10; however, many employers and unions require Grade 12
- Completion of a 4-year apprenticeship program at 2,000 hours per year
- If you have completed 8,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Algonquin

Hydro One

Infrastructure Health and Safety Association – Chatham

Infrastructure Health and Safety Association – Sudbury

Infrastructure Health and Safety Association – Mississauga

Toronto Hydro

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook

[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects

[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

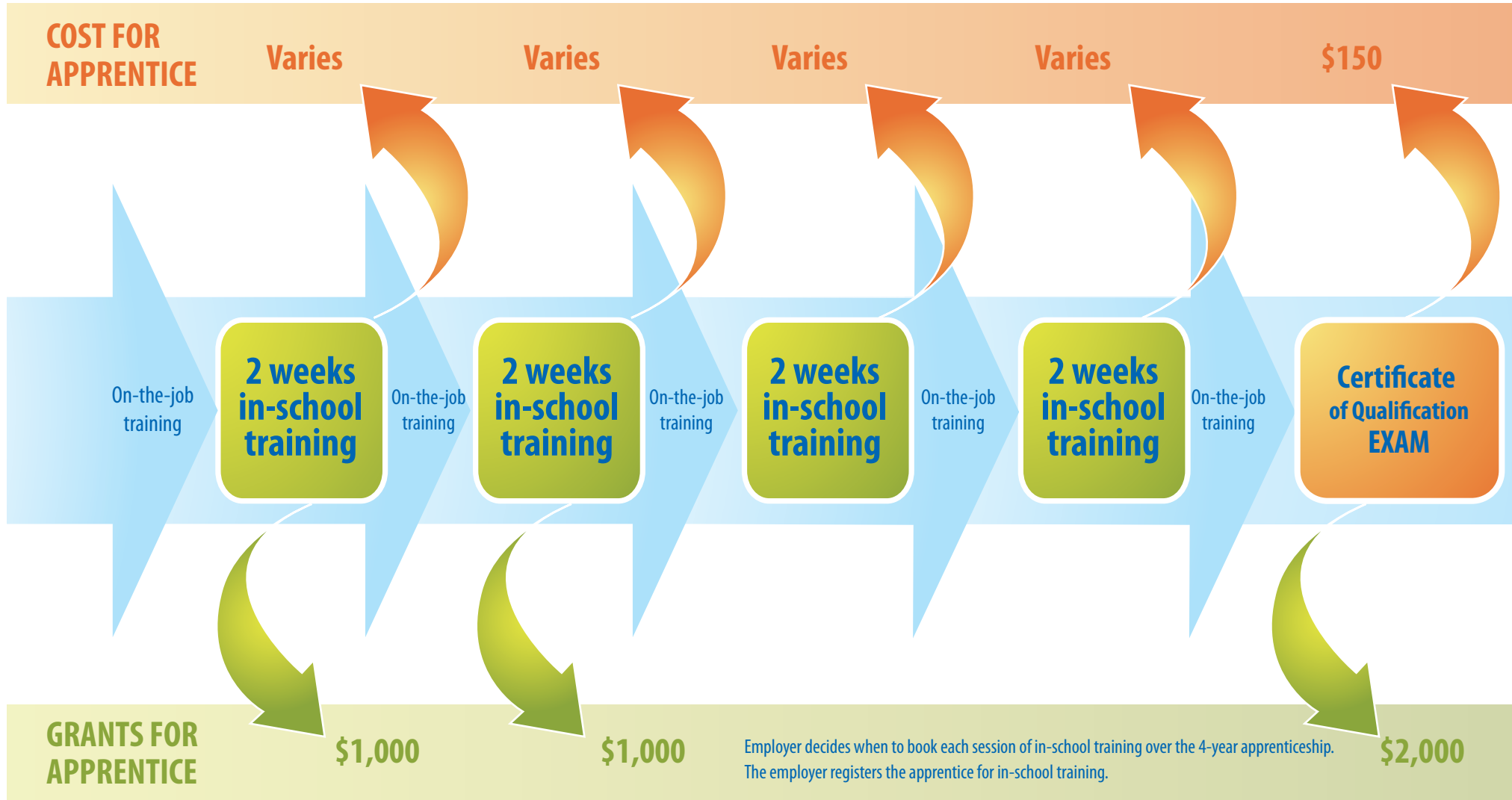
Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Electrical power system – lineperson
- Cable installer – electrical power
- Cable splicer – electrical power construction
- Powerline patroller

# Powerline Technician

Total training hours (on-the-job + in-school training) = 8,000



# Precast Concrete Erector

**Number of Hours:** 5,400 hours  
**Number of School Sessions:** 2 x 10 weeks (600 hours)

**Trade Code:** 244K  
**NOC** 72105  
**Construction Sector**

## Description

- Loads precast units on site
- Conducts pre-erection surveys
- Unloads and stores precast units
- Installs and aligns precast units
- Installs bolted precast connections
- Makes welded precast connections
- Installs dowelled precast connections

## Personal Qualities

- You are able to prepare the worksite for installation, including loading and unloading pieces
- You are able to safely use riggings and scaffoldings, where necessary
- You are able to guide the crane operator using hand signals
- You are able to read and interpret architectural drawings, blueprints, and diagrams
- You are able to use hand and power tools and machines, such as pneumatics wrenches
- You are able to align, bolt, weld, or use other mounting devices to join panels together
- You are able to apply grout, prepare surfaces, and finish grouted areas as well as apply caulking and primers
- You are able to observe safety in accordance with government and company standards

## Career Opportunities and Other Details

- Precast concrete erectors work 35-40 hours/week; may work project-by-project or be employed by construction firm
- Precast concrete erectors are exposed to a variety of weather conditions and high noise levels; often required to bend and to lift and carry heavy objects
- Precast concrete erectors take risks which include working with corrosive chemicals and dangerous equipment
- Employers include precast concrete manufacturers, construction companies, and bricklaying and painting contractors

## Minimum Academic Entry Level for Apprenticeship Registration

Minimum entry for this apprenticeship is Grade 10 (i.e., 16 credits), and you are no longer connected with your high school. If you are actively enrolled in high school cooperative education or an Adult Learning Centre with a co-op placement in this trade, ask a guidance counsellor or your co-op teacher about becoming an apprentice while still in high school through the Ontario Youth Apprenticeship Program. The Ontario Youth Apprenticeship Program has no upper age limit.

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

L.I.U.N.A. Local 506  
L.I.U.N.A. Local 637

Level 1 is common with 244L Precast Concrete Finisher. For common core levels, check listings under the other trade for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)





# Precast Concrete Finisher

**Number of Hours:** 5,400 hours  
**Number of School Sessions:** 2 x 10 weeks (600 hours)

**Trade Code:** 244L  
**NOC** 73100  
**Construction Sector**

## Description

Repairs, finishes, cleans, grouts and chucks precast concrete surfaces

## Personal Qualities

- You are able to prepare the worksite for installation, including loading and unloading pieces
- You are able to safely use riggings and scaffoldings, where necessary
- You are able to guide the crane operator using hand signals
- You are able to read and interpret architectural drawings, blueprints, and diagrams
- You are able to use hand and power tools and machines, such as pneumatics wrenches
- You are able to align, bolt, weld, or use other mounting devices to join panels together
- You are able to apply grout, prepare surfaces, and finish grouted areas as well as apply caulking and primers
- You are able to observe safety in accordance with government and company standards

## Career Opportunities and Other Details

- Precast concrete finishers work 35-40 hours/week; may work project-by-project or be employed by construction firm
- Precast concrete finishers are exposed to a variety of weather conditions and high noise levels; often required to bend and to lift and carry heavy objects
- Precast concrete finishers take risks which include working with corrosive chemicals and dangerous equipment
- Employers include precast concrete manufacturers, construction companies, and bricklaying and painting contractors

## Minimum Academic Entry Level for Apprenticeship Registration

Minimum entry for this apprenticeship is Grade 10 (i.e., 16 credits), and you are no longer connected with your high school. If you are actively enrolled in high school cooperative education or an Adult Learning Centre with a co-op placement in this trade, ask a guidance counsellor or your co-op teacher about becoming an apprentice while still in high school through the Ontario Youth Apprenticeship Program. The Ontario Youth Apprenticeship Program has no upper age limit.

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

L.I.U.N.A. Local 637

Level 1 is common with 244K Precast Concrete Erector. For common core levels, check listings under the other trade for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

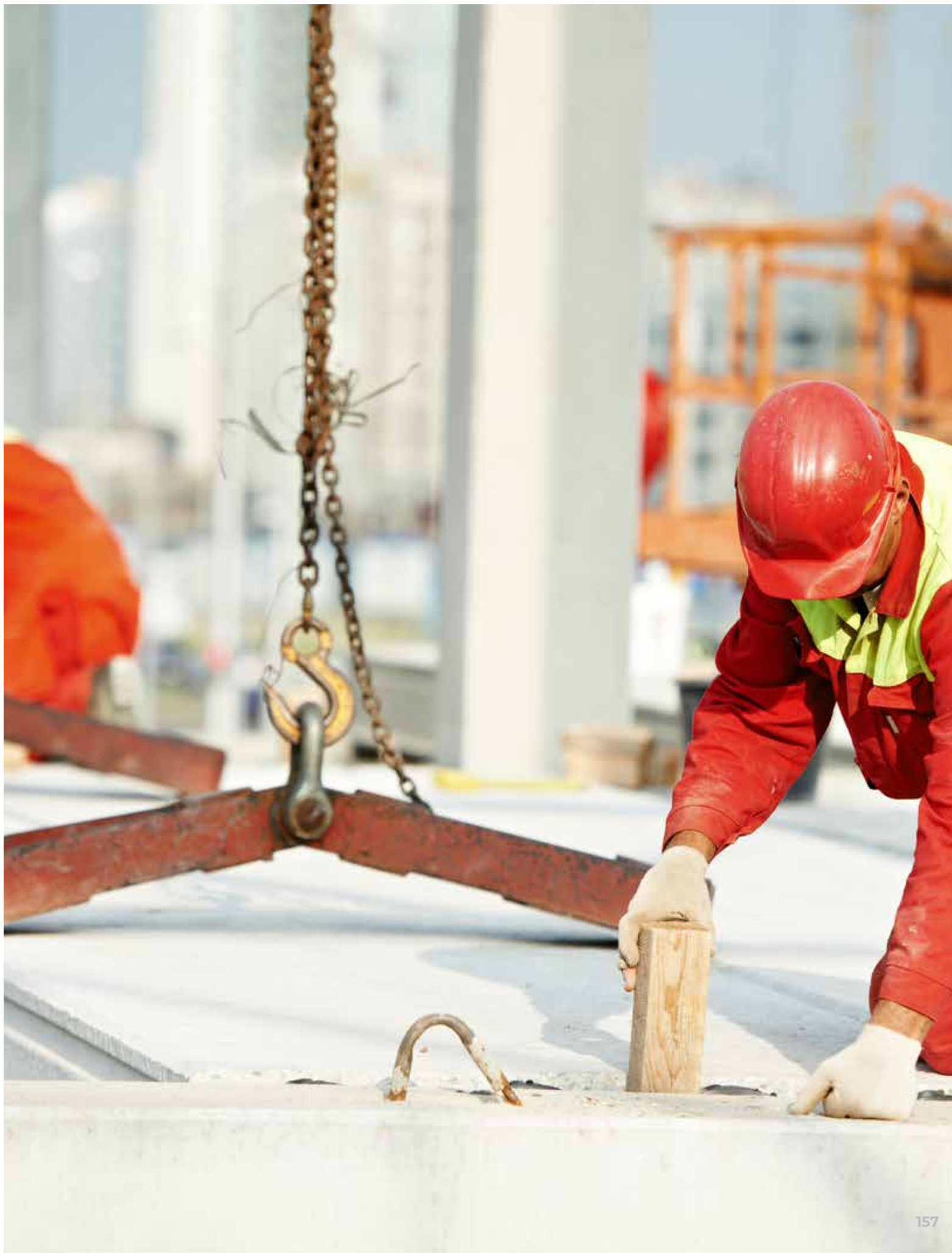
Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)





# Process Operator – Food Manufacturing

**Number of Hours:** 4,000 hours  
**Number of School Sessions:** 3 x 10 weeks (300 hours)

**Trade Code:** 246T  
**NOC** 94140  
**Industrial Sector**

## Description

- Operates, monitors, adjusts, and maintains food processing units and equipment

## Personal Qualities

- You are able to safely use and maintain tools and equipment; handle, store, and dispose of hazardous workplace materials
- You are able to writing work reports, including standard work documentation and safety report

## Career Opportunities

- Apprentices generally start in candy, food, or beverage packaging plants
- Apprenticeship graduates are well-positioned to move into management or supervisory positions in various workplaces

## Minimum Academic Entry Level for Apprenticeship Registration

Minimum entry for this apprenticeship is a Grade 12 diploma. The exception to this is if you are actively enrolled in high school cooperative education or an Adult Learning Centre with a co-op placement in this trade, and you have an employer willing to register you as an apprentice. Ask a guidance counsellor or your co-op teacher about the Ontario Youth Apprenticeship Program. The Ontario Youth Apprenticeship Program has no upper age limit.

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Canadore College  
Conestoga College  
Loyalist College

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)





# Railway Car Technician

**Number of Hours:** 7,280 hours  
**Number of School Sessions:** 3 x 8 weeks (720 hours)

**Trade Code:** 268R  
**NOC** 72403  
**Industrial Sector**

## Description

- Inspects interior and exterior components of freight, passenger and urban transit rail cars to determine defects and extent of wear and damage
- Repairs and installs railway car parts such as compressors, air valves, bearings, couplings, air cylinders and piping
- Repairs and maintains electrical and electronic controls for propulsion and braking systems
- Repairs defective or damaged metal and wood components, using hand and power
- Repairs and repaints wooden fixtures
- Replaces damaged windows and repair upholstery
- Tests and adjusts parts using testing gauges and other test equipment
- Performs and documents routine maintenance

## Personal Qualities

- You have good manual dexterity, an eye for detail and enjoy working with your hands
- You are safety conscious
- You have good analytical and problem-solving skills
- You are able to work around trains
- You have good physical fitness, are able to lift, carry and manipulate heavy objects
- You can work indoors, outdoors and in various weather conditions
- You like doing general maintenance and keeping things in good working order

## Career Opportunities

Employers who hire railway car technicians include railway transport companies and public transportation companies.

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Taking courses in mathematics, science and physics is recommended
- Completion of a 7280-apprenticeship program is required

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Canadore College

Centennial College

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)



# Refrigeration and Air Conditioning Systems Mechanic

**Number of Hours:** 8,280 hours  
**Number of School Sessions:** 3 x 8 weeks (720 hours)  
**Compulsory Trade/Red Seal Trade**

**Trade Code:** 313A  
**NOC** 72402  
**Construction Sector**

## Description

- Reads and interprets blueprints, drawings or other specifications
- Measures and lays out reference points for installation
- Assembles and installs refrigeration or air conditioning components such as motors, controls, gauges, valves, circulating pumps, condensers, humidifiers, evaporators and compressors using hand and power tools
- Measures and cuts piping, and connects piping using welding and brazing equipment
- Installs, troubleshoots and overhauls entire heating, ventilation, air handling, refrigeration and air conditioning systems
- Starts up system and tests for leaks using testing devices
- Recharges system with refrigerant, checks and tests regulators, calibrates system and performs routine maintenance or servicing
- Repairs and replaces parts and components for entire refrigeration, air conditioning, ventilation or heat pump systems

## Personal Qualities

- You are able to work in cramped areas or on roof tops, if required
- You are able to work outside at various times of the year
- You are able to climb up and down ladders
- You have the stamina to be on your feet for long periods of time
- You are safety conscious
- You are in good physical condition to carry materials

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities and Other Details

- Refrigeration and air conditioning systems mechanics work for a wide variety of companies and contractors where cooling systems are required including the residential, commercial and industrial sectors
- A significant portion of journeypersons are employed as unionized workers
- Many refrigeration and air conditioning mechanics have their own business

## Minimum Academic Entry Level for Apprenticeship Registration

- The minimum entry for apprenticeship is Grade 10; however, many employers and unions require Grade 12
- Completion of a 5-year apprenticeship program at 1,800 hours per year

- If you have completed 9,000 hours of on the job experience/training but have not completed the Apprenticeship Program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Algonquin College	George Brown College
Mohawk College	Cambrian College
Centennial College	Conestoga College
La Cité Collégiale	Refrigeration Workers Local 787
St. Clair College	

Level 1 is common with 313D Residential Air Conditioning Systems Mechanic. For common core levels, check listings under the other trade for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

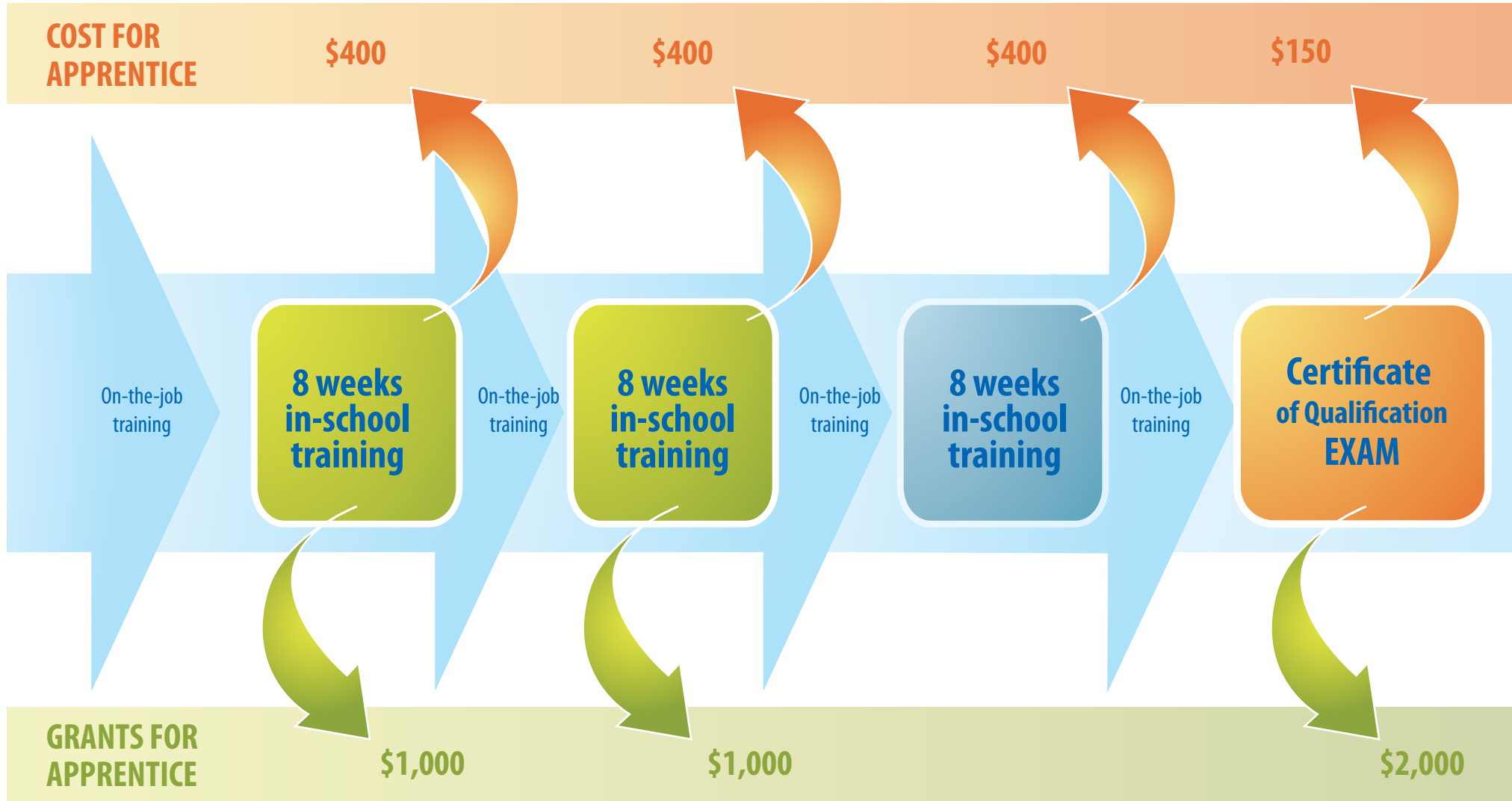
- Central air conditioning mechanic
- Commercial air conditioning mechanic
- Heating and cooling mechanic
- Heating, ventilation and air conditioning (HVAC) mechanic
- Refrigeration mechanic



# Refrigeration and Air Conditioning Systems Mechanic

Total training hours (on-the-job + in-school training) = 9,000

313A



# Reinforcing Rodworker

**Number of Hours:** 3,640 hours

**Number of School Sessions:** 2 sessions – 1 x 8 weeks,  
1 x 4 weeks (360 hours)

**Red Seal Trade**

**Trade Code:** 452A

**NOC** 72105

**Construction Sector**

## Description

- Fabricates, handles, cuts, sorts, bends, rigs, place burns, welds and ties all materials used to reinforce concrete structures
- Installs reinforcing steel and accessories in the building of types of concrete structures including buildings, sewers, highways, bridges and reservoirs
- Reads and interprets blueprints

## Personal Qualities

- You are able to work both indoors and outdoors and be subjected to various weather conditions
- You are able to frequently lift and carry heavy objects, if required
- You are able to bend or stoop repeatedly
- You have good manual dexterity and physical strength would be an asset in this trade

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities and Other Details

- Reinforcing rodworkers generally work a 40-hour work week, either in residential, commercial or industrial setting
- You may also be required to work shift work

## Minimum Academic Entry Level for Apprenticeship Registration

- The minimum entry for apprenticeship is Grade 10; however, many employers require Grade 12
- Completion of a 4,000-hour apprenticeship program is required
- Takes 2 years to complete the apprenticeship
- If you have completed 4,000 hours of on-the-job experience/training but you have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Sault College

Ironworkers Local 700      Ironworkers Local 721

Ironworkers Local 736      Ironworkers Local 765

Ironworkers Local 786

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

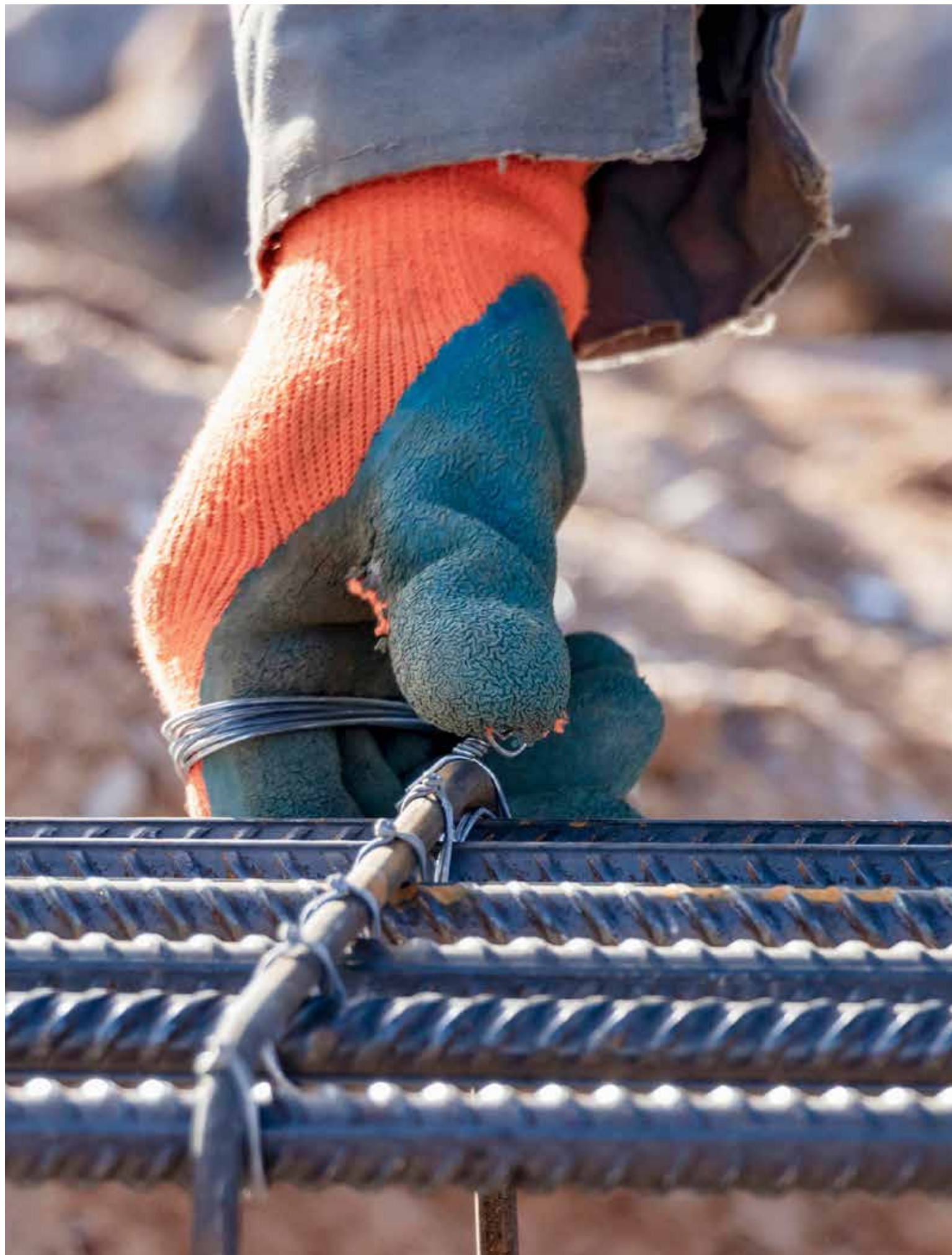
Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)





# Residential Air Conditioning Systems Mechanic

**Number of Hours:** 4,020 hours  
**Number of School Sessions:** 2 x 8 weeks (480 hours)  
**Compulsory Trade**

**Trade Code:** 313D  
**NOC** 72402  
**Construction Sector**

## Description

- Works on residential air conditioning systems including geo-exchange systems.
- Plans, lays out, installs, starts-up, connects, maintains, services, repairs, tests, verifies, commissions, and decommissions residential air conditioning systems, components and their accessories
- Installs and connects piping for the purpose of conveying all types of refrigerants used for both primary and secondary heating and cooling
- Maintains, services, repairs and replaces system components and accessories, including electrical and electronic components
- Checks efficiency outputs and parameters; inspects and checks operation and integrity of components; determines set points; replaces defective, leaking, discoloured and worn components; performs shut-downs and lock outs; makes adjustments to pressures and controls; cleans and lubricates components; checks calibrations; reassembles and repairs components and systems; starts-up, tests and charges the systems
- Measures, cuts, bends, threads, and connects pipe to functional components and utilities
- Services, tests, adjusts, commissions, and decommissions the system

## Personal Qualities

- You are able to work in cramped areas or on ladders, if required
- You are willing to work outside part of the time
- You have the stamina to be on your feet for long periods of time
- You are extremely safety conscious

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

Employers and contractors hire residential air conditioning systems mechanics for work on projects in the low-rise residential sector.

## Minimum Academic Entry Level for Apprenticeship Registration

The minimum entry for apprenticeship is Grade 10

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

George Brown College	Mohawk College
Algonquin College	Cambrian College
Centennial College	Conestoga College
Fanshawe College	George Brown College
La Cité Collégiale	Mohawk College
St. Clair College	

Level 1 is common with 313A Refrigeration and Air Conditioning Systems Mechanic. For common core levels, check listings under the other trade for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

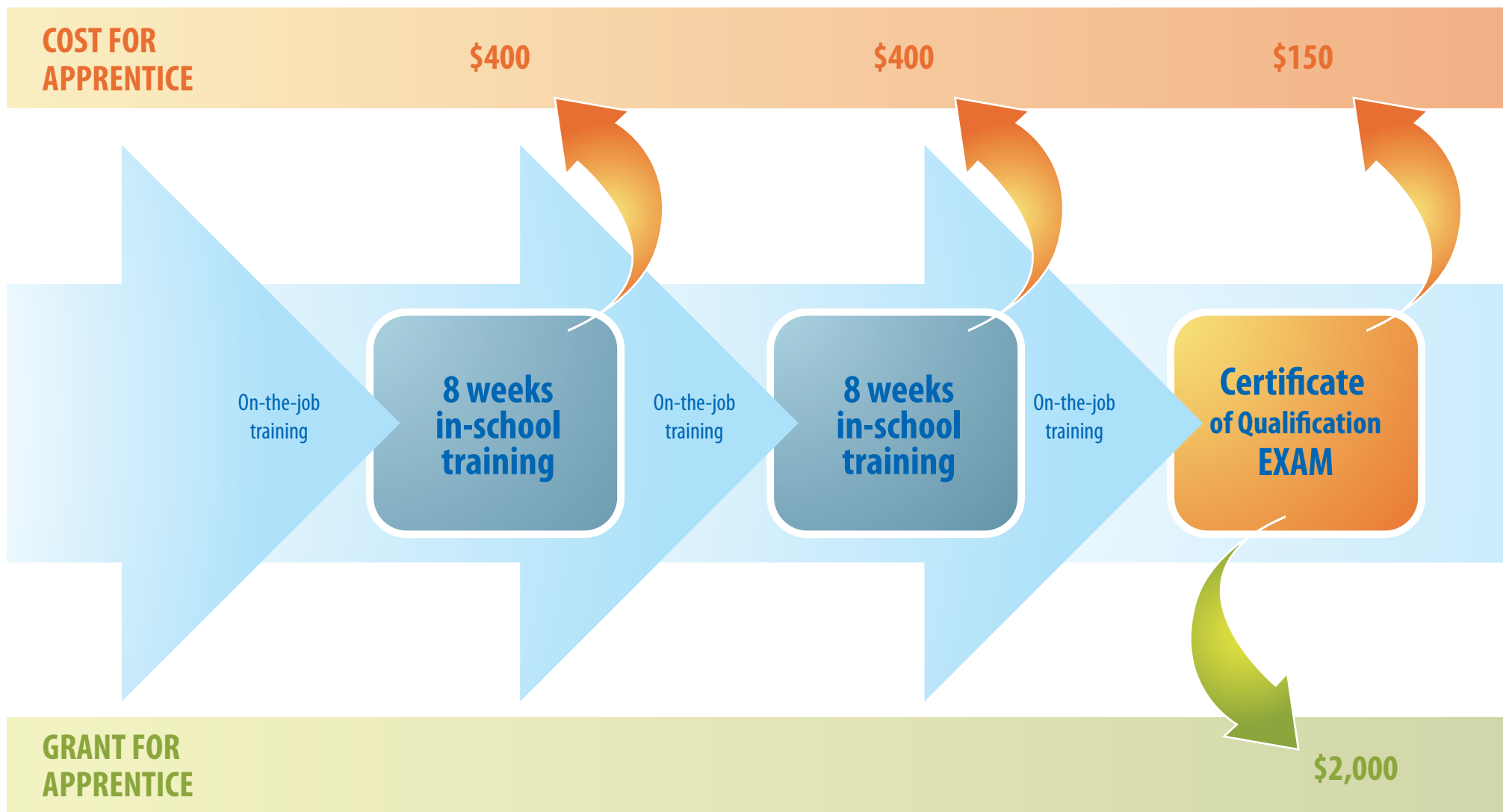
## Unofficial Ways of Referring to This Trade

- Central air conditioning mechanic
- Commercial air conditioning mechanic
- Heating and cooling mechanic
- Heating, ventilation and air conditioning (HVAC) mechanic
- Refrigeration mechanic

# Residential Air Conditioning Systems Mechanic

Total training hours (on-the-job + in-school training) = 4,500

313D



# Residential (Low Rise) Sheet Metal Installer

**Number of Hours:** 4,140 hours  
**Number of School Sessions:** 2 x 6 weeks (360 hours)  
**Compulsory Trade**

**Trade Code:** 308R  
**NOC** 72102  
**Construction Sector**

## Description

- Installs residential air-handling and ventilation systems in low-rise (four storeys or fewer) residential buildings that do not have common conditioned areas. The work is done in self-contained, single- family dwellings such as detached, semi-detached and town and linked homes that have a wood frame construction.
- Follows safe working practices and procedures and environmental protection practices
- Organizes work for residential (low rise) sheet metal installations
- Prepares the worksite
- Installs ventilation and main ducts

## Personal Qualities

- You have good manual dexterity, an eye for dimension and detail, and enjoy working with hands and power tools
- You have good analytical and problem-solving skills
- You are able to follow health & safety guidelines
- You can lift 50lbs comfortably
- You are able to travel for work
- You are good at visualizing, reading drawings, or creating a freehand sketch
- You enjoy interacting with site supervisors, customers, suppliers, co-workers and other tradespeople to get the job done
- You have excellent time management
- You are an organized person

## Career Opportunities and Other Details

- May be involved in new construction or retrofit installations; removal of old equipment could involve hazardous materials
- Necessary to learn about and keep up with advances in energy/heat recovery processes and technology
- Occupational safety knowledge is essential
- Potential employers include building construction firms and plumbing, heating, and air conditioning firms

## Minimum Academic Entry Level for Apprenticeship Registration

The minimum entry for apprenticeship is Grade 10; however, employers and unions may require Grade 12

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or [www.ontario.ca/page/employment-ontario-apprenticeship-offices](http://www.ontario.ca/page/employment-ontario-apprenticeship-offices)

Conestoga College – Waterloo

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

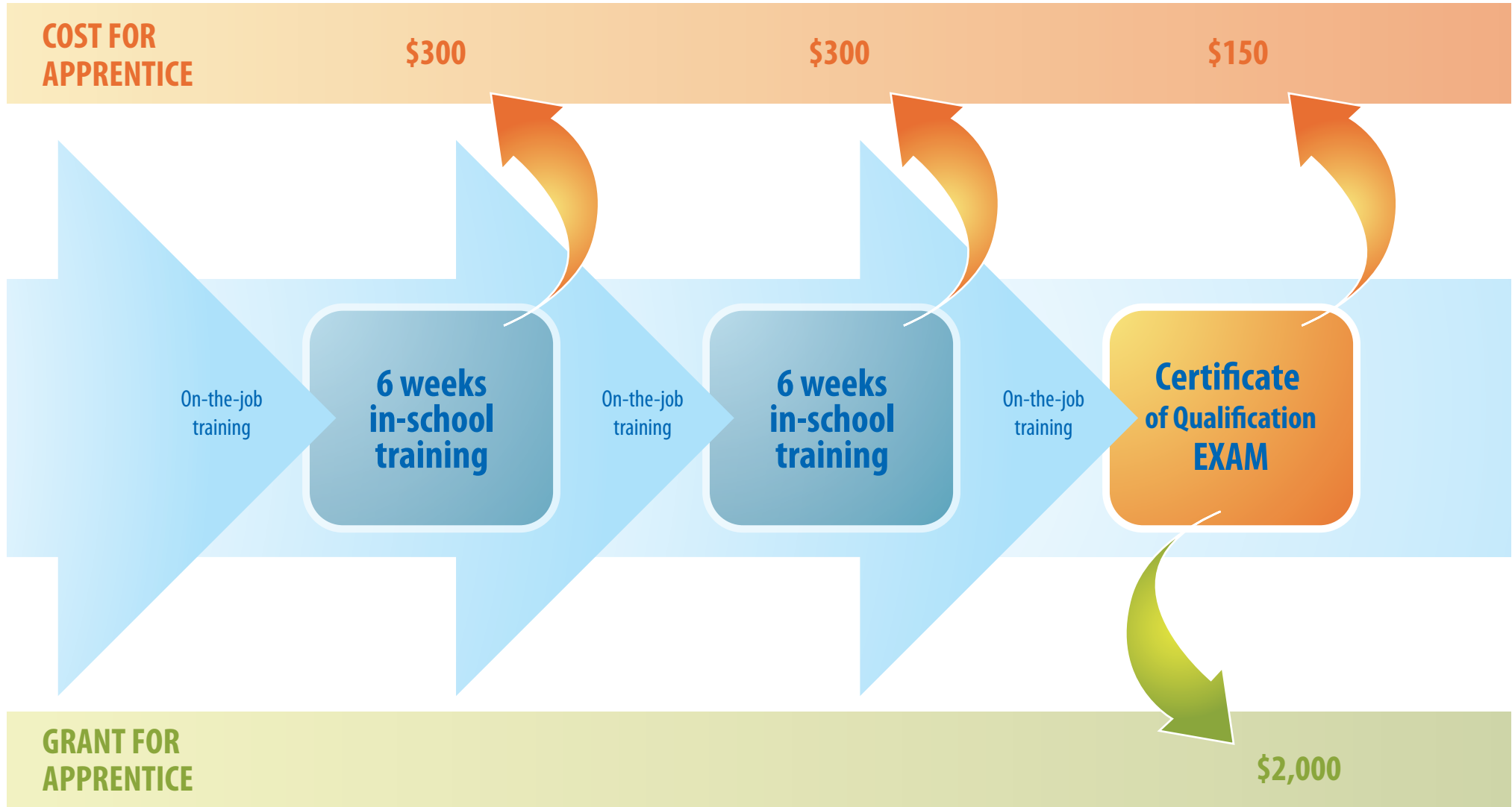
- Pipe system installer
- Tinsmith
- Tin banger



# Residential (Low Rise) Sheet Metal Installer

Total training hours (on-the-job + in-school training) = 4,500

308R





# Retail Meat Cutter

**Number of Hours:** 3,460 hours  
**Number of School Sessions:** 1 x 18 weeks (540 hours)

**Trade Code:** 245R  
**NOC** 72102  
**Service Sector**

## Description

- Demonstrates safe working practices and techniques
- Applies general work practices and merchandising
- Sets up and operates machinery
- Performs business practices/customer relations
- Prepares beef cuts
- Prepares pork cuts
- Prepares lamb cuts
- Prepares veal cuts
- Prepares poultry cuts
- Prepares meat for sausage making

## Personal Qualities

- You are able to interact with customers in a professional manner; resolve or re-direct their inquiries or concerns to ensure satisfaction
- You are able to set up and safely operate scaling, pricing, lifting, and other power equipment
- You are able to cut beef, poultry, lamb, and pork into retail cuts using equipment to label and package them
- You are able to observe good sanitation practices and procedures to prevent contamination
- You are able to acquire a strong working knowledge of various relevant health and safety acts
- You are able to correctly use and maintain hand tools and accessories
- You are able to inspect meat/poultry products; receive and check shipments against invoices, noting any errors
- You are able to handle frozen products and maintain refrigeration controls to prevent spoilage
- You are able to display and maintain meat products; analyze sales volumes
- You are able to maintain written records, including service orders; ensure product labels are clear, concise, and meet requirements
- You are able to complete financial transactions as required

## Career Opportunities and Other Details

- Primarily employed in retail and food grocery business
- Work indoors, 40-hour week; may be adjacent to refrigerated areas with temperatures between 4-10 degrees Celsius
- Sharp instruments like knives and saws pose risk of injury
- Employers include wholesale or retail meat shops, supermarket operations, delicatessens, and self-employment

## Minimum Academic Entry Level for Apprenticeship Registration

Grade 12 graduate or in a high school co-op

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Seaway Meat Cutting School Institute

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Retail butcher
- Meat cutter – retail or wholesale
- Supermarket meat cutter
- Fishmonger

NON-COMPULSORY

# Retail Meat Cutter

Total training hours (on-the-job + in-school training) = 4,000

245R

**COST FOR  
APPRENTICE**

**\$900 per session**

On-the-job  
training

**18 weeks  
in-school  
training  
540 hours**

On-the-job  
training

**Certificate  
of Apprenticeship**

**GRANT FOR  
APPRENTICE**

**\$2,000**

Upon completion of the subject-matter apprenticeship classes, on-the-job hours and employer approval, the apprentice is granted a Certificate of Apprenticeship.

# Roofer

**Number of Hours:** 3,520 hours  
**Number of School Sessions:** 2 x 8 weeks (480 hours)  
**Red Seal Trade**

**Trade Code:** 449A  
**NOC** 73110  
**Construction Sector**

## Description

- Installs, repairs or replaces built-up roofing systems using materials such as asphalt saturated felts and hot asphalt and gravel
- Installs, repairs or replaces single-ply roofing systems using waterproof sheet materials such as modified plastics, elastomeric or other asphaltic compositions
- Installs, repairs or replaces shingles, shakes and other roofing tiles on sloped roofs of buildings
- Installs sheet metal flashings
- Applies waterproof coatings to concrete or other masonry surfaces below or above ground level
- Installs and repairs metal roofs using hand and power tools
- Sets up scaffolding to provide safe access to roofs
- Estimates materials required and quotes costs
- Sets up manual and power hoists, determines the weight of the load, and uses hand signals during lifts

## Personal Qualities

- You are able to work at considerable heights
- You are able to work outside at different times of the year and experience a range of environmental conditions
- You enjoy hard, physical work
- You have the stamina to be on your feet for long periods of time
- You are comfortable on ladders
- You are in good physical condition and are able to carry heavy materials

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities and Other Details

- Roofers are employed by roofing contractors on construction or repair jobs
- Some roofers are members of unions
- Some roofers own their own companies

## Minimum Academic Entry Level for Apprenticeship Registration

- The minimum entry for apprenticeship is Grade 10; however, employers and unions may require Grade 12
- Completion of a 2-year apprenticeship program at 2,000 hours per year
- If you have completed 4,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Conestoga College

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

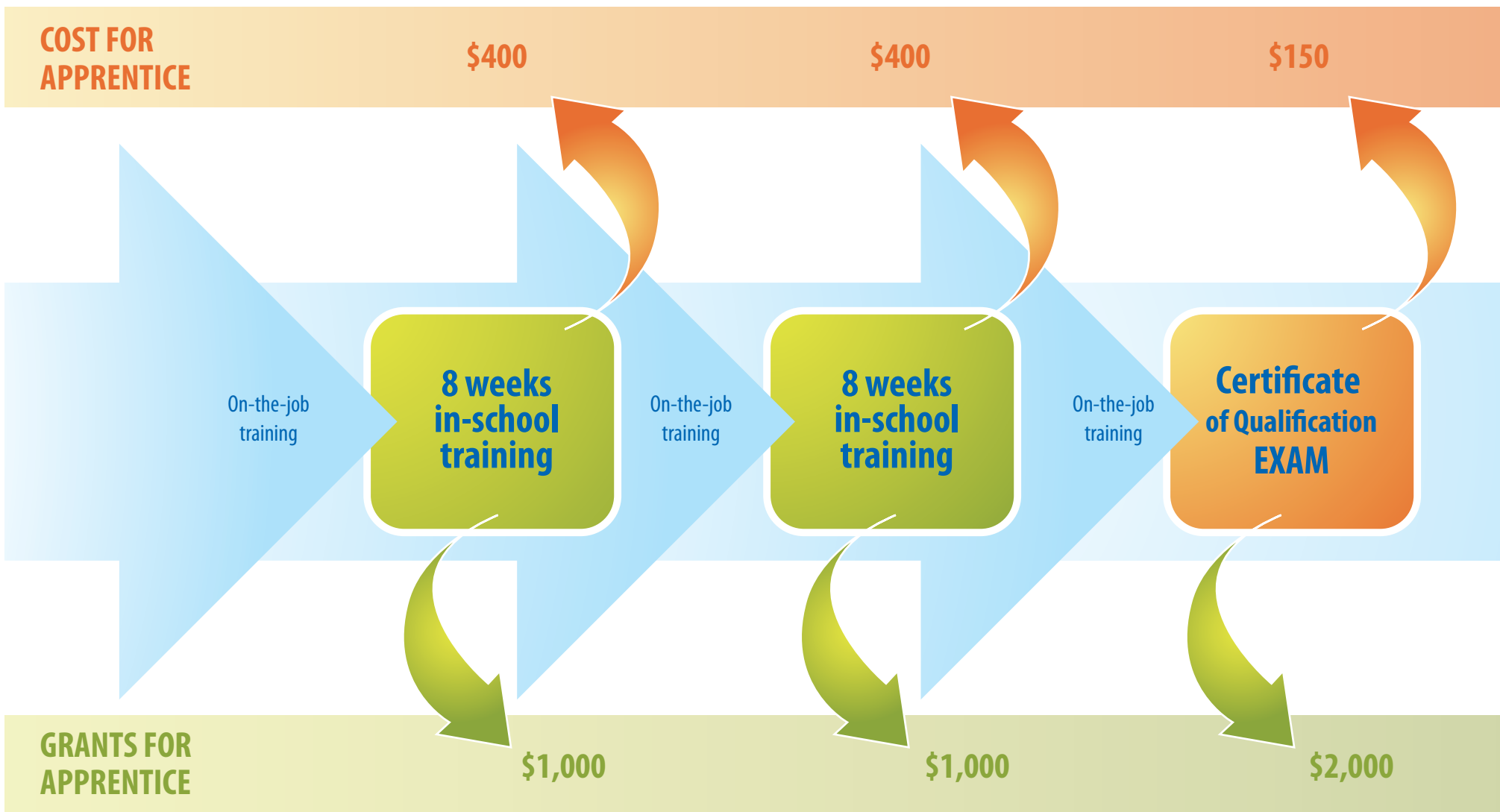
## Unofficial Ways of Referring to This Trade

- Built-up roofer
- Residential steep roofer
- Single-ply roofer
- Shingler
- Asphalt roofer

# Roofer

Total training hours (on-the-job + in-school training) = 4,000

449A



# Saw Filer/Fitter

**Number of Hours:** 8,000 hours  
**Number of School Sessions:** 2 x 8 weeks (480 hours)

**Trade Code:** 611B  
**NOC** 72423  
**Industrial Sector**

## Description

- Maintains wood sawing machines in lumber or paper mills
- Files grooved, contoured and irregular surfaces of knives, saw blades and metal objects
- Repairs, sets and sharpens bandsaws, chainsaws, handsaws, circular saws and other types of saw blades
- Troubleshoots sawing machinery and analyzing faults for corrective or repair action

## Personal Qualities

- You have good manual dexterity
- You pay attention to detail
- You are able to follow health & safety guidelines
- You are able to lift 50lbs comfortably
- You are comfortable working indoors and outdoors
- You enjoy learning about new technology on an ongoing basis
- You enjoy interacting with site supervisors, customers, suppliers, co-workers and other tradespeople to get the job done
- You enjoy tinkering, using tools, solving puzzles, doing calculations and figuring out problems

## Career Opportunities and Other Details

- Work 40 hours per week, indoors in saw or pulp mills
- May be required to live/work in remote areas where mills are located
- Often required to do heavy lifting; exposure to high noise levels
- Employers include saw mills and pulp mills

## Minimum Academic Entry Level for Apprenticeship Registration

The minimum entry for apprenticeship is Grade 12

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Collège Boréal – Hearst

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Saw fixer





# Sheet Metal Worker

**Number of Hours:** 8,280 hours  
**Number of School Sessions:** 3 x 8 weeks (720 hours)  
**Compulsory Trade/Red Seal Trade**

**Trade Code:** 308A  
**NOC** 72102  
**Construction Sector**

## Description

- Reads engineering and architectural drawings, sketches and work specifications to be performed
- Lays out, measures and marks sheet metal according to drawings or templates
- Develops patterns for sheet metal using computer assisted design and drafting (CAD) software packages
- Operates light metalworking machines such as shears, brakes, punches, and drill presses, including computer numerical control (CNC) equipment to cut, bend, punch, drill, shape or straighten sheet metal and operates computerized laser or plasma cutting equipment to cut sheet metal
- Fabricates, assembles, installs and repairs sheet metal products
- Shears, forms, fabricates, welds, solders and assembles a host of items made from galvanized iron, sheet steel, copper, nickel alloy, stainless steel, aluminum and materials such as plastics and ceramics

## Personal Qualities

- You are able to work in cramped areas or at considerable heights, if required
- You have the stamina to be on your feet for long periods of time
- You are in good physical condition to carry materials
- You enjoy working to close tolerances

## Career Opportunities

- Non-union and union employers and contractors hire sheet metal workers for projects in the construction, industrial, commercial and residential sectors
- Companies and contractors which specialize in either fabrication or installation or both also hire sheet metal workers

## Minimum Academic Entry Level for Apprenticeship Registration

- The minimum entry for apprenticeship is Grade 10; however, employers and unions may require Grade 12
- If you have completed 9,000 hours of on-the-job experience/training and have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

George Brown College   Mohawk College  
Algonquin College   Fanshawe College  
Ontario Sheet Metal Workers Training Centre – Oakville  
Sheet Metal Workers International Association Local 285

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

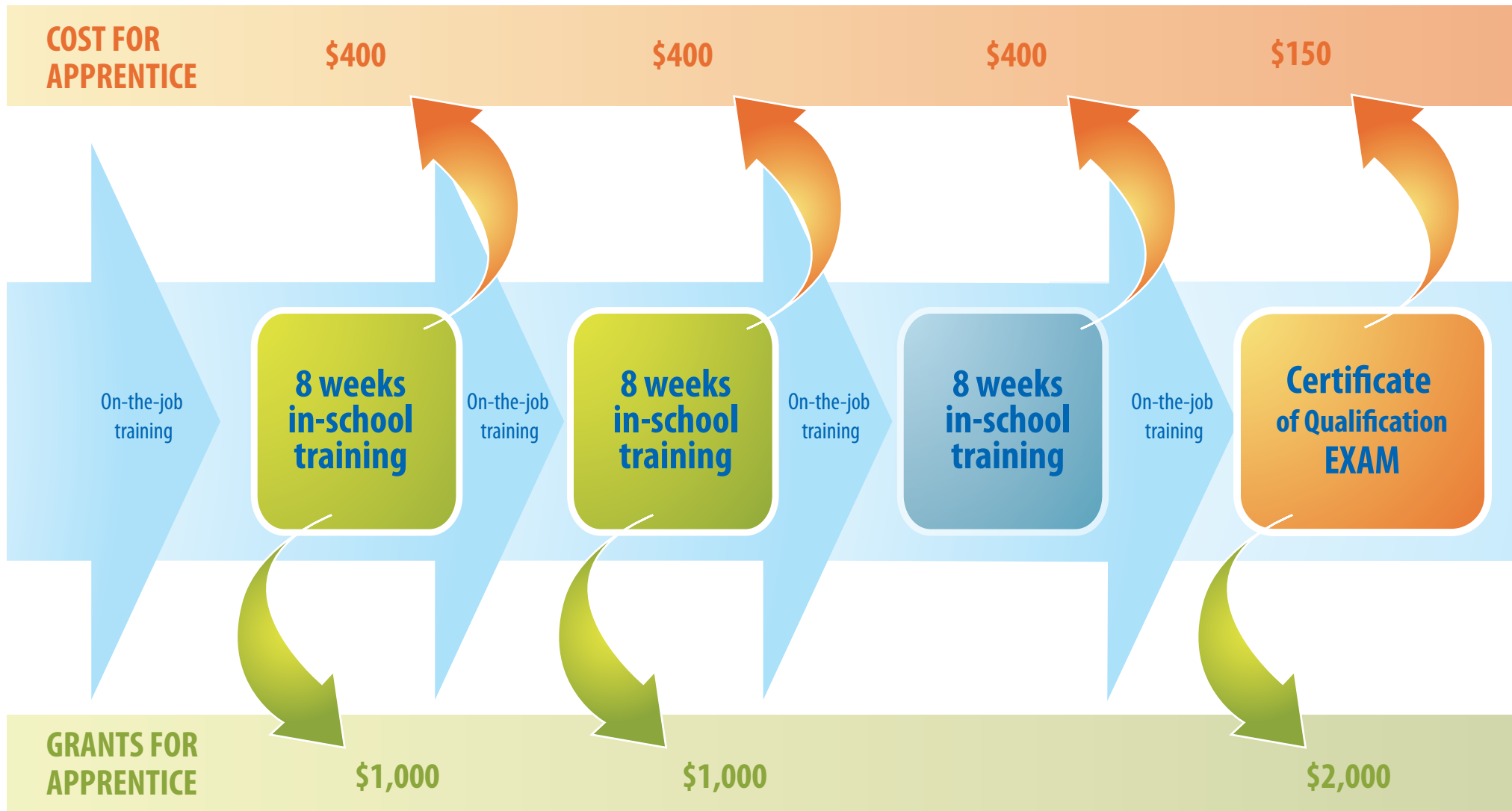
- Sheet metal fabricator
- Sheet metal mechanic
- Tinsmith
- Tin banger

COMPULSORY

# Sheet Metal Worker

Total training hours (on-the-job + in-school training) = 9,000

308A





# Small Engine Technician

**Number of Hours:** 4520 hours

**Number of School Sessions:** 2 x 8 weeks (480 hours)

**Trade Code:** 435A

**NOC** 72429

**Motive Power Sector**

## Description

- Repairs and services small gasoline and diesel-powered equipment such as garden tractors, lawn mowers and other related equipment
- Reviews work orders and discusses work to be performed with supervisor
- Determines estimates of repair cost
- Sets up and operates small-power equipment
- Inspects and tests small engines, other mechanical components, using test devices to diagnose and isolate faults
- Adjusts, repairs or replaces mechanical or electrical system parts and components using hand tools and equipment
- Performs scheduled maintenance service on equipment
- Maintains and repairs engines and engine components
- Tests and adjusts repaired equipment for proper performance
- Advises customers on work performed and general condition of equipment

## Personal Qualities

- You enjoy working both indoors and outdoors
- You enjoy working to close and exacting tolerances
- You have the stamina to be on your feet for long periods of time and must bend down and crouch frequently
- You like to study and keep up with changing technology
- You are willing to make a significant investment in tools
- You like working with computerized equipment
- You like working with small engines

## Career Opportunities

- Small engine technicians are employed by dealer service shops and by independent service establishments
- Some small engine technicians own their own business

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- If you have completed 5,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Georgian College

Canadore College

Levels 1 and 2 are common with 435B Marine Engine Technician; 421C Turf Equipment Technician. For common core levels, check listings under the other trades for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Small equipment repairer
- Gasoline powered lawn mower repairer
- Lawn and garden equipment technician

# Small Engine Technician

Total training hours (on-the-job + in-school training) = 5,000

435A

**COST FOR  
APPRENTICE**

\$400

\$400

\$150

On-the-job  
training

**8 weeks  
in-school  
training**

On-the-job  
training

**8 weeks  
in-school  
training**

On-the-job  
training

**Certificate  
of Qualification  
EXAM**

**GRANT FOR  
APPRENTICE**

\$2,000



# Sprinkler and Fire Protection Installer

**Number of Hours:** 6,480 hours  
of School Sessions: 3 x 8 weeks (720 hours)  
**Compulsory Trade/Red Seal Trade**

**Trade Code:** 427A  
**NOC** 72301  
**Construction Sector**

## Description

- Reads and interprets drawings, specifications and fire codes to determine layout requirements
- Installs clamps, brackets and hangers to support piping systems and sprinkler and fire protection equipment using and power tools
- Fabricates, installs, tests, maintains and repairs water, foam, carbon dioxide and dry chemical sprinkler systems in buildings for fire protection purposes
- Installs valves, alarms and associated equipment
- Uses air or liquid pressure equipment to test systems for leaks
- Performs work indoors on residential and commercial buildings

## Personal Qualities

- You are able to work in cramped areas or at considerable heights, if required
- You have the stamina to be on your feet for long periods of time
- You are in good physical condition to carry materials

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities and Other Details

- Contractors in the institutional, commercial and industrial sectors are major employers, as are maintenance departments of factories, plants and similar establishments
- Companies that specialize in fire protection are also employers
- The majority of sprinkler and fire protection installer tradespersons are unionized workers

## Minimum Academic Entry Level for Apprenticeship Registration

- The minimum entry for apprenticeship is Grade 10; however, employers and unions may require Grade 12
- If you have completed 7,200 hours of on-the-job experience/training and have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

La Cité Collégiale      United Association Local 853  
Sprinkler Fitters of Ontario

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

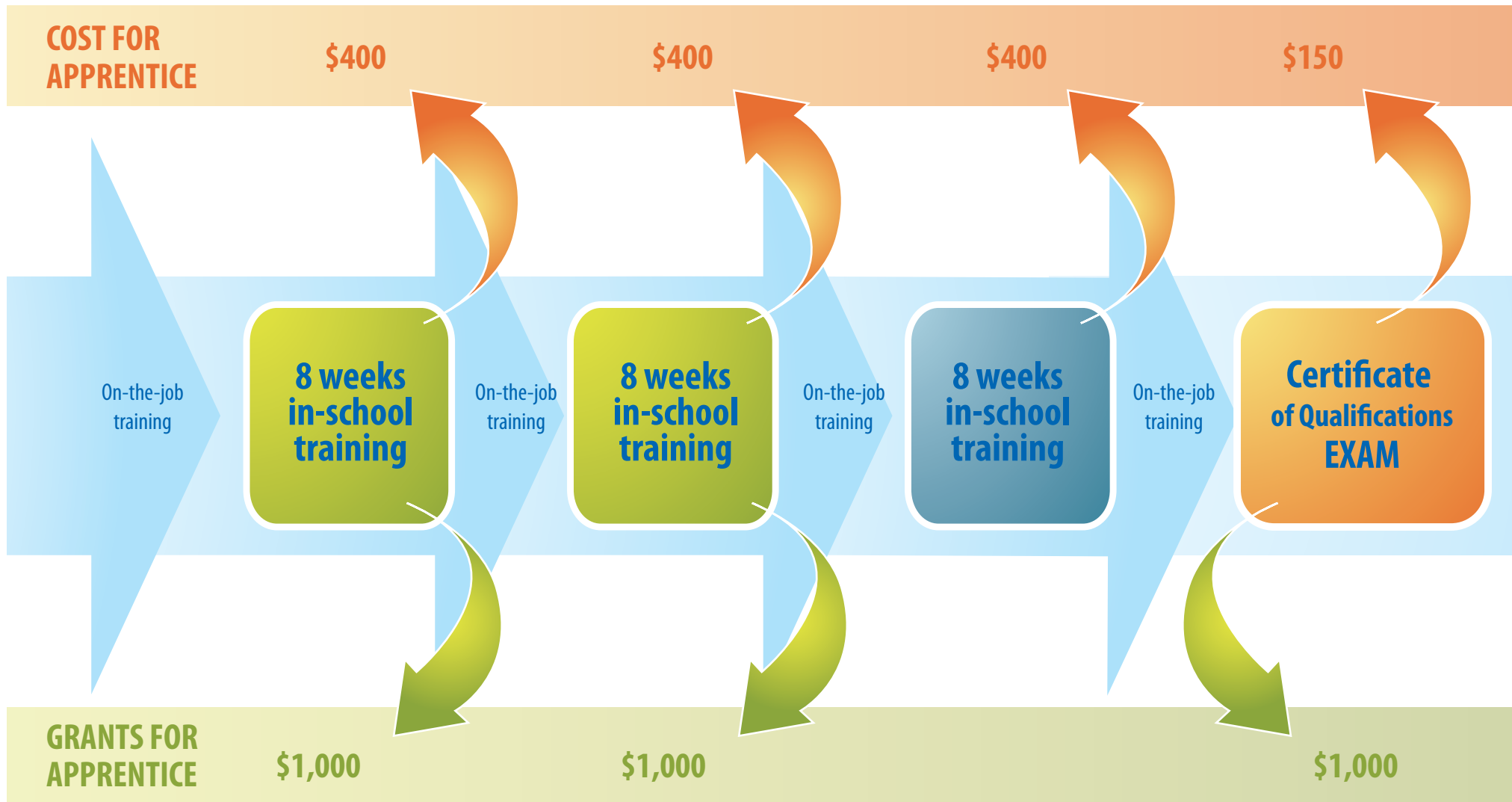
- Fire sprinkler fitter
- Pipefitter
- Sprinkler system fitter
- Steamfitter

COMPULSORY

# Sprinkler and Fire Protection Installer

Total training hours (on-the-job + in-school training) = 7,200

427A



# Steamfitter

**Number of Hours:** 8,280 hours  
**Number of School Sessions:** 3 x 8 weeks (720 hours)  
**Compulsory Trade/Red Seal Trade**

**Trade Code:** 307A  
**NOC** 72301  
**Construction Sector**

## Description

- Lays out, assembles, fabricates, maintains and repairs piping systems carrying water, steam, chemicals and fuel in heating, cooling, lubricating and other process piping systems
- Reads and interprets drawings, blueprints and specifications to determine layout requirements
- Selects type and size of pipe required
- Installs supports, valves, piping and control systems
- Tests systems for leaks using testing equipment
- Removes and replaces worn components and reactivate systems

## Personal Qualities

- You are able to work in cramped areas or at considerable heights, if required
- You are able to work outside at various times of the year and experience a range of environmental conditions
- You have the stamina to be on your feet for long periods of time
- You are in good physical condition to carry materials

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

- Contractors in the industrial, commercial and institutional sectors are major employers
- Many steamfitters own their own business

## Minimum Academic Entry Level for Apprenticeship Registration

- The minimum entry for apprenticeship is Grade 10; however, employers and unions may require Grade 12
- If you have completed 9,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

George Brown College  
Mohawk College Sault College  
Durham College  
JTAC Local 46  
Lambton College

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

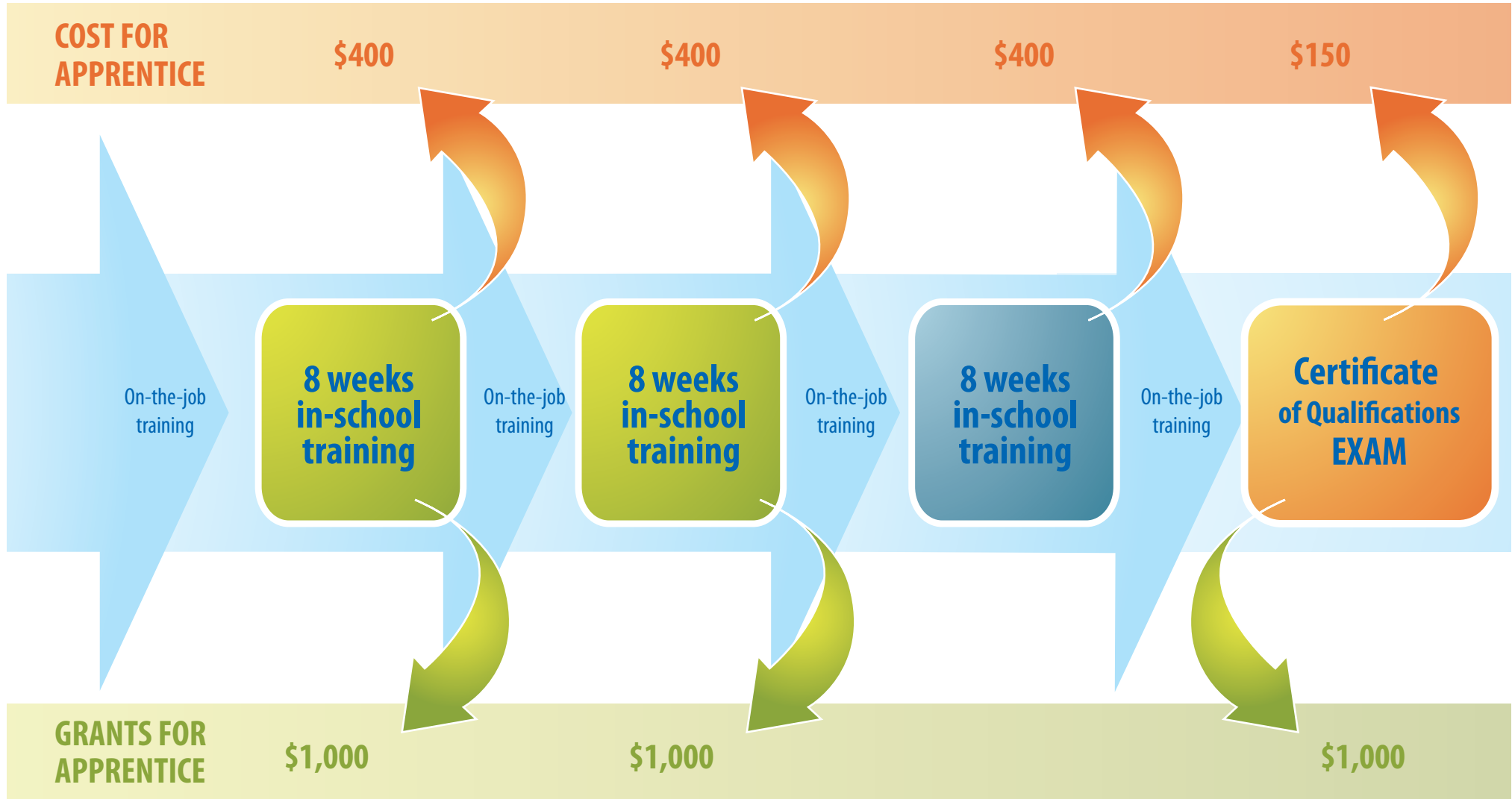
## Unofficial Ways of Referring to This Trade

- Fire sprinkler fitter
- Pipefitter-steamfitter
- Sprinkler system fitter
- Marine pipefitter

# Steamfitter

Total training hours (on-the-job + in-school training) = 9,000

307A



# Terrazzo, Tile and Marble Setter

**Number of Hours:** 4,880 hours  
**Number of School Sessions:** 2 x 12 weeks (720 hours)  
**Red Seal Trade**

**Trade Code:** 241A  
**NOC** 73101  
**Construction Sector**

## Description

- Uses and maintains electrical, pneumatic and hydraulic power tools
- Interprets blueprints and specifications
- Inspects and verifies materials and tools, and sets plumb, level and square lines and surfaces
- Prepares sub-surface
- Installs terrazzo and tile
- Performs mechanical installation of natural stone on walls
- Installs natural stone indoors by conventional or stacking method
- Installs natural stone slabs on floors and counter tops

## Personal Qualities

- You enjoy working with your hands
- You are precise with an eye for detail
- You are creative
- You are artistic

## Career Opportunities and Other Details

- Terrazzo, tile and marble setters are employed by construction companies and masonry contractors, or they may be self-employed
- The standard work week is 40 hours with peak periods that will require overtime work
- Work indoors and outdoors, alone or with a team of other construction professionals
- Physically demanding, bending, kneeling, having to lift heavy materials

## Minimum Academic Entry Level for Apprenticeship Registration

Left school with Grade 10, or currently participating in high school co-op

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Terrazzo Tile & Marble Trade School Inc.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects

[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices [www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

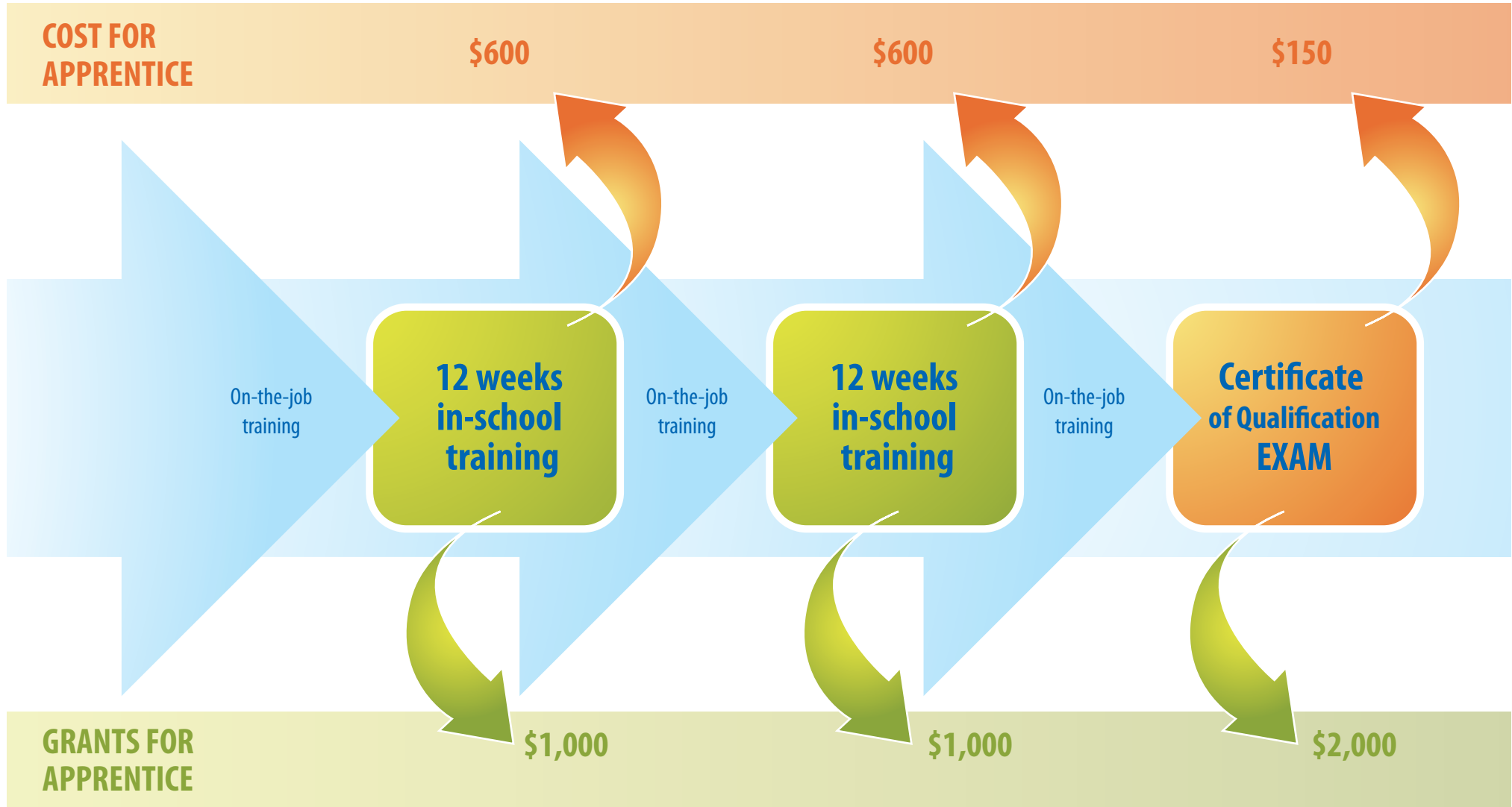
- Ceramic tile installer
- Marble setter
- Terrazzo polisher
- Terrazzo worker
- Tile installer
- Masonry contractor



# Terrazzo, Tile and Marble Setter

Total training hours (on-the-job + in-school training) = 5,600

241A



# Thin Film Technician

**Number of Hours:** 7,920 hours  
**Number of School Sessions:** 1 x 2.6 weeks (80 hours)

**Trade Code:** 225F  
**NOC** 92024  
**Industrial Sector**

## Description

Works with spherical precision optics, synchro-speed precision optics, plan precision optics, thin film operation

## Personal Qualities

- You pay attention to detail, you are careful about detail and thorough in completing work tasks
- You are dependable, reliable, responsible and fulfill obligations and fulfill obligations
- You are an analytical thinker, analyzing information and using logic to address work-related issues and problems
- You make an effort in establishing and maintaining personally challenging achievement goals and exerting effort toward mastering tasks
- You are flexible and open to change (positive or negative) and to considerable variety in the workplace

## Career Opportunities and Other Details

Industrial plant settings specializing in photonics where they build, install, test or maintain optical or fibre optic equipment such as lasers, lenses, or mirrors using spectrometers, interferometers or related equipment

## Minimum Academic Entry Level for Apprenticeship Registration

Grade 12 graduate or actively participating in high school co-op

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

In-house training by the employer

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journey person's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Photonics technician

NON-COMPULSORY

# Thin Film Technician

Total training hours (on-the-job + in-school training) = 8,000

225F

**COST FOR  
APPRENTICE**

**\$0.00 Sponsor-Led**

On-the-job  
training

**2.6 weeks  
in-school  
training  
80 hours**

On-the-job  
training

**Certificate  
of Apprenticeship**

**GRANT FOR  
APPRENTICE**

**\$2,000**

This certified non-compulsory Ontario trade was sponsor-developed to meet the training needs specific to Raytheon ELCAN, a division of Raytheon Intelligence and Space, US. They are a fully-integrated high precision optics, opto-mechanical and electronics manufacturing company located in Midland, Ontario.

# Tool and Die Maker

**Number of Hours:** 7,280 hours

**Number of School Sessions:** 3 x 8 weeks (720 hours)

**Red Seal Trade**

**Trade Code:** 430A

**NOC** 72101

**Industrial Sector**

## Description

- Reads and interprets engineering drawings and specifications of tools, dies, prototypes or models
- Prepares templates and sketches, and determines work processes
- Computes dimensions and tolerances and sets up machine tools
- Positions, secures, measures and works metal stock or castings to lay out for machining
- Sets up, operates and maintains a variety of conventional and Computer Numerically Controlled (CNC) machine tools to cut, turn, mill, plane, drill, bore, grind or otherwise shape work piece to prescribed dimensions and finish
- Verifies machined parts for conformance to specifications using precision measuring instruments such as Coordinate Measuring Machines (CMM), vernier calipers, micrometers, and electronic measuring devices
- Fits and assembles or disassembles parts using hand tools
- Tests completed tools, dies, jigs or fixtures for proper operation
- May program CNC machine tools

## Personal Qualities

- You enjoy working with your hands and have good concentration
- You are able to work indoors with noise, vibrations and other hazards that are common on the job
- You enjoy working to close and exacting tolerances
- You have the stamina to be on your feet for long periods of time
- You like to learn new things on a consistent basis
- You like using computers

Review essential skills profile for additional skills  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

Tool and die makers are employed primarily in large and small companies in manufacturing industries such as automobile, aircraft, metal fabrication, electrical machinery and plastics, and in tool and die, mould making and machine shops

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- If you have completed 8,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Durham College  
Fanshawe College  
Mohawk College  
Sheridan College

Conestoga College  
Georgian College  
St. Clair College  
St. Lawrence College

Level 1, known as Precision Machining and Tooling Common Core, is common with 429A General Machinist; 431A Mould Maker; 443A Pattern Maker; 430M Machine Tool Builder and Integrator; 630T Tool/Tooling Maker. For common core levels, check listings under the other trades for possibly more school choices.

Levels 2 and 3 are common with 630T Tool/Tooling Maker. Check listings under the other trade for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

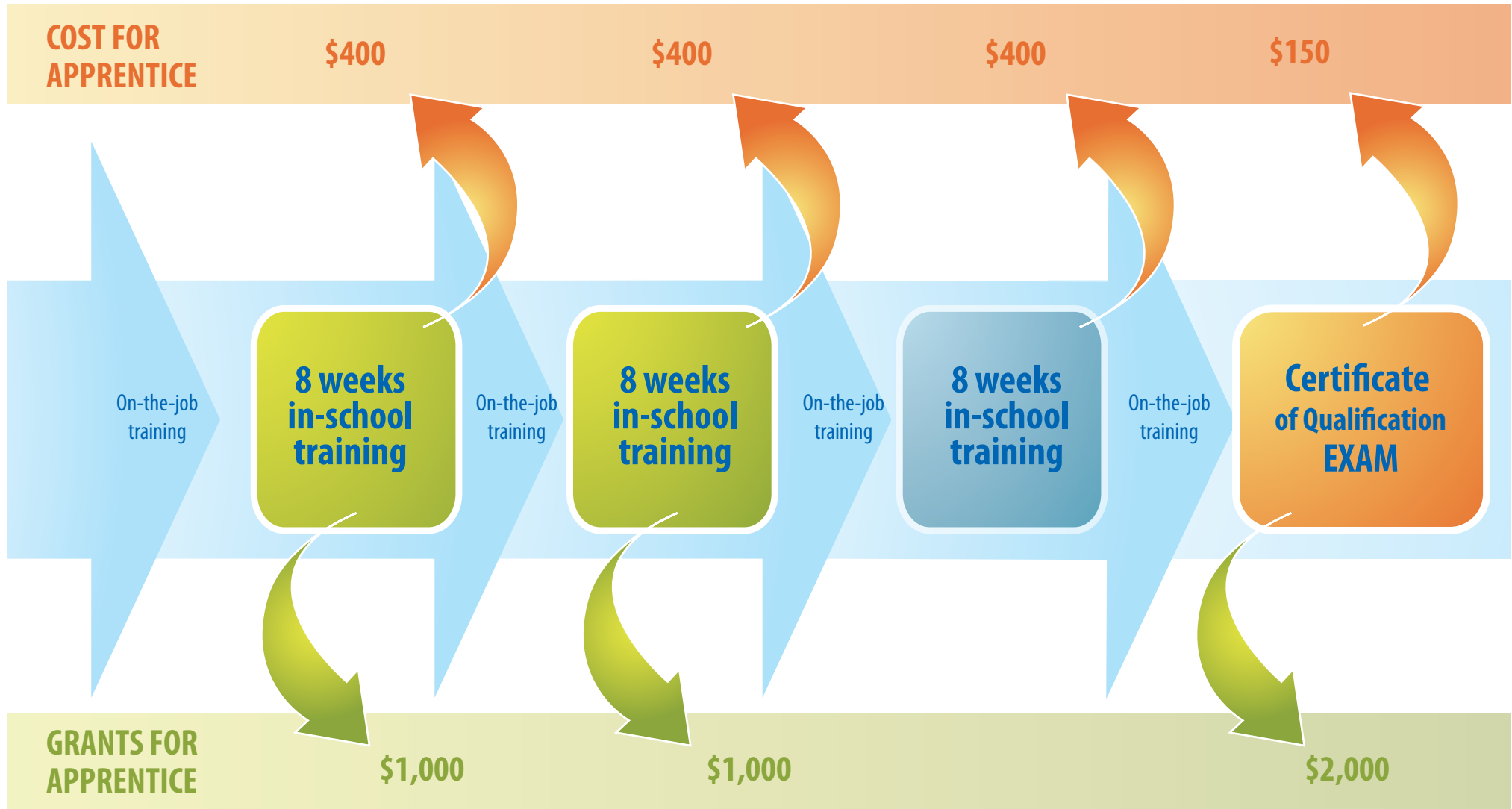
Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Jig maker
- Die finisher
- Die maker
- Metal mould maker
- Metal patternmaker

# Tool and Die Maker

Total training hours (on-the-job + in-school training) = 8,000





# Tool/Tooling Maker

**Number of Hours:** 7,280 hours  
**Number of School Sessions:** 8 x 3 weeks (720 hours)

**Trade Code:** 630T  
**NOC** 72101  
**Industrial Sector**

## Description

- Reads and interprets complex engineering drawings, bills of materials, and tool building drawings and specifications of tools, prototypes or models
- Prepares templates and sketches, and determines work processes
- Computes dimensions and tolerances and sets up machine tools
- Positions, secures, measures and works metal stock or castings to lay out for machining
- Sets up, operates and maintains a variety of conventional and Numerically Controlled (NC) and Computerized Numerically Controlled (CNC) machine tools to cut, turn, mill, plane, drill, bore, grind or otherwise shape work piece to prescribed dimensions and finish
- Assembles and fits tool components
- Verifies machined parts for conformance to specifications using precision measuring instruments such as Coordinate Measuring Machines (CMM), vernier calipers, micrometers and electronic measuring devices
- Conducts final fitting and inspects sub-assemblies and components
- Conducts final finishing and testing of complex tools and tooling
- Tests completed tools, dies, jigs or fixtures for proper operation
- May program Computerized Numerically Controlled (CNC) machine tools

## Personal Qualities

- You are able to work to close and exacting tolerances
- You enjoy working with your hands
- You are able to work indoors with noise, vibrations and other hazards that are common on the job
- You have the stamina to be on your feet for long periods of time
- You like to learn new things on a consistent basis
- You like using computers

Review essential skills profile for additional skills  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

Tool/tooling makers are employed primarily in manufacturing industries such as automobile, aircraft, metal fabrication, electrical machinery and plastics, and in tool and die, mould making and machine shops

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- Completion of a 7,280-hour apprenticeship program is required. If you have completed 8,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Conestoga College	Fanshawe College
Georgian College	Mohawk College
St. Clair College	Sheridan College
St. Lawrence College	

Level 1, known as Precision Machining and Tooling Common Core, is common with 429A General Machinist; 430A Tool and Die Maker; 431A Mould Maker; 443A Pattern Maker; 430M Machine Tool Builder and Integrator. For common core levels, check listings under the other trades for possibly more school choices.

Levels 2 and 3 are common with 430A Tool and Die Maker. Check listings under the other trade for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journey person's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

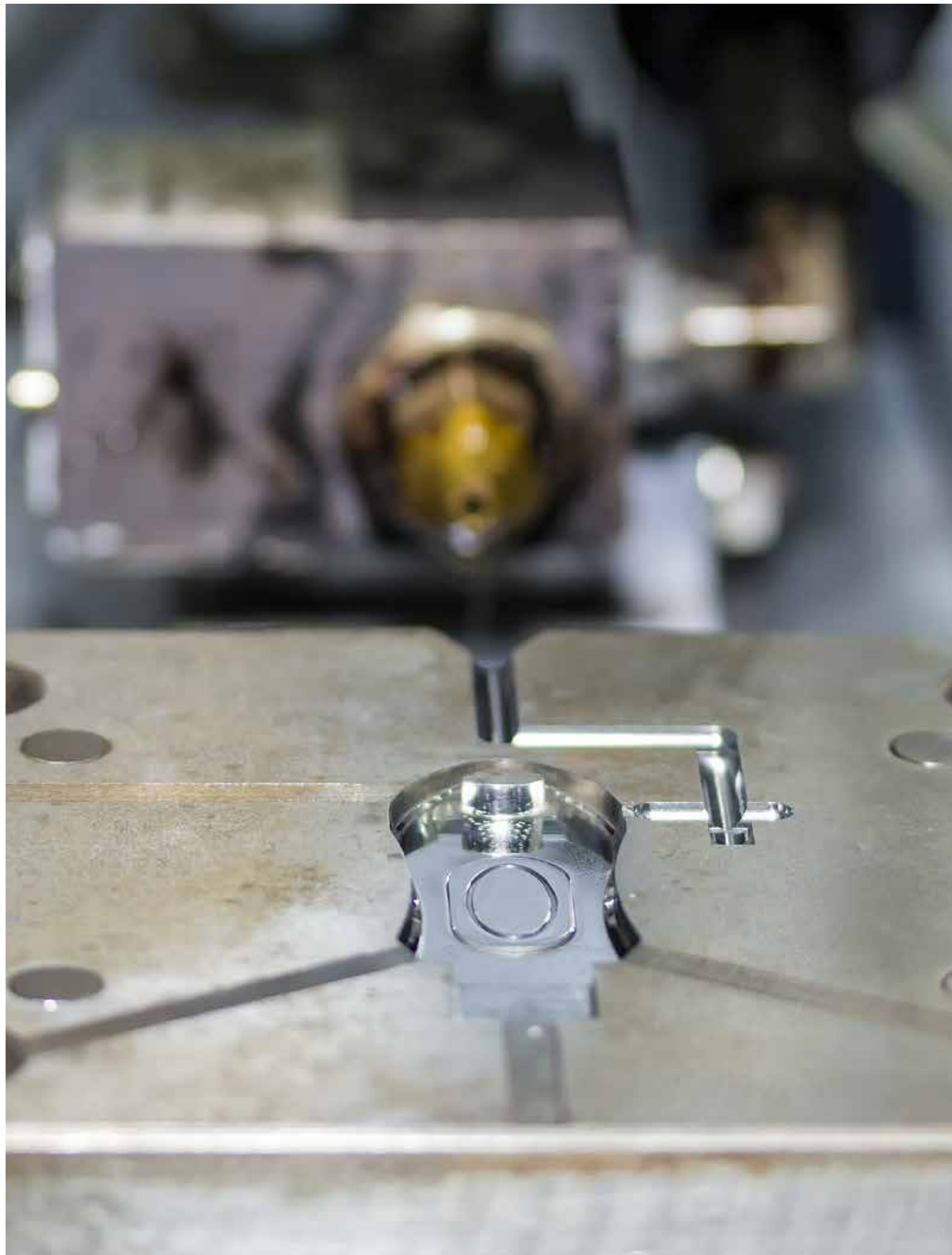
## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Jig maker
- Die finisher
- Die maker
- Metal mould maker
- Metal patternmaker



# Truck and Coach Technician

**Number of Hours:** 6,000 hours  
**Number of School Sessions:** 3 x 8 weeks (720 hours)  
**Compulsory Trade/Red Seal Trade**

**Trade Code:** 310T  
**NOC** 72410  
**Motive Power Sector**

## Description

- Reviews work orders and discusses work with supervisor
- Inspects motor in operation, and road test motor vehicle
- Tests systems and components using computerized diagnostic and other testing devices to diagnose and isolate faults
- Adjusts, repairs or replaces parts and components of truck and bus systems including fuel, brake, steering and suspension, engine and drive train, emission control and exhaust, cooling and climate control, and electrical and electronic systems using hand tools and other specialized automotive repair equipment
- Tests and adjusts repaired systems to manufacturer's performance specifications
- Performs scheduled maintenance service, such as oil changes, lubrications and tune-ups
- Advises customers on work performed, general vehicle conditions and future repair requirements

## Personal Qualities

- You are able to work indoors around loud noises, grease, oil, gasoline and various exhaust fumes
- You enjoy working to close tolerances
- You have the stamina to be on your feet for long periods of time and are able to bend down and reach up frequently
- You are not bothered by standing on concrete all day
- You have and use physical strength on the job
- You are willing to keep up with changing technology on a consistent basis
- You are willing to make a significant investment in tools
- You like working with computers and computerized equipment
- You are able to cope with demands from drivers and owners who want their truck or bus fixed immediately

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

- Truck and coach technicians are employed at truck, bus or motor home dealerships; manufacturers of trucks, buses, and motor homes; freight and transportation companies; municipal or provincial highway transportation departments; or other stand-alone repair facilities
- A truck and coach technician may work as a service advisor, work for suppliers or manufacturers, or work in sales

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- If you have completed 6,720 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Centennial College	Algonquin College
Canadore College	Conestoga College
Confederation College	Fanshawe College
La Cité Collégiale	Mohawk College
St. Clair College	Sault College
Cambrian College	Collège Boréal
Municipality of North Grenville – Kemptville, Northern	

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

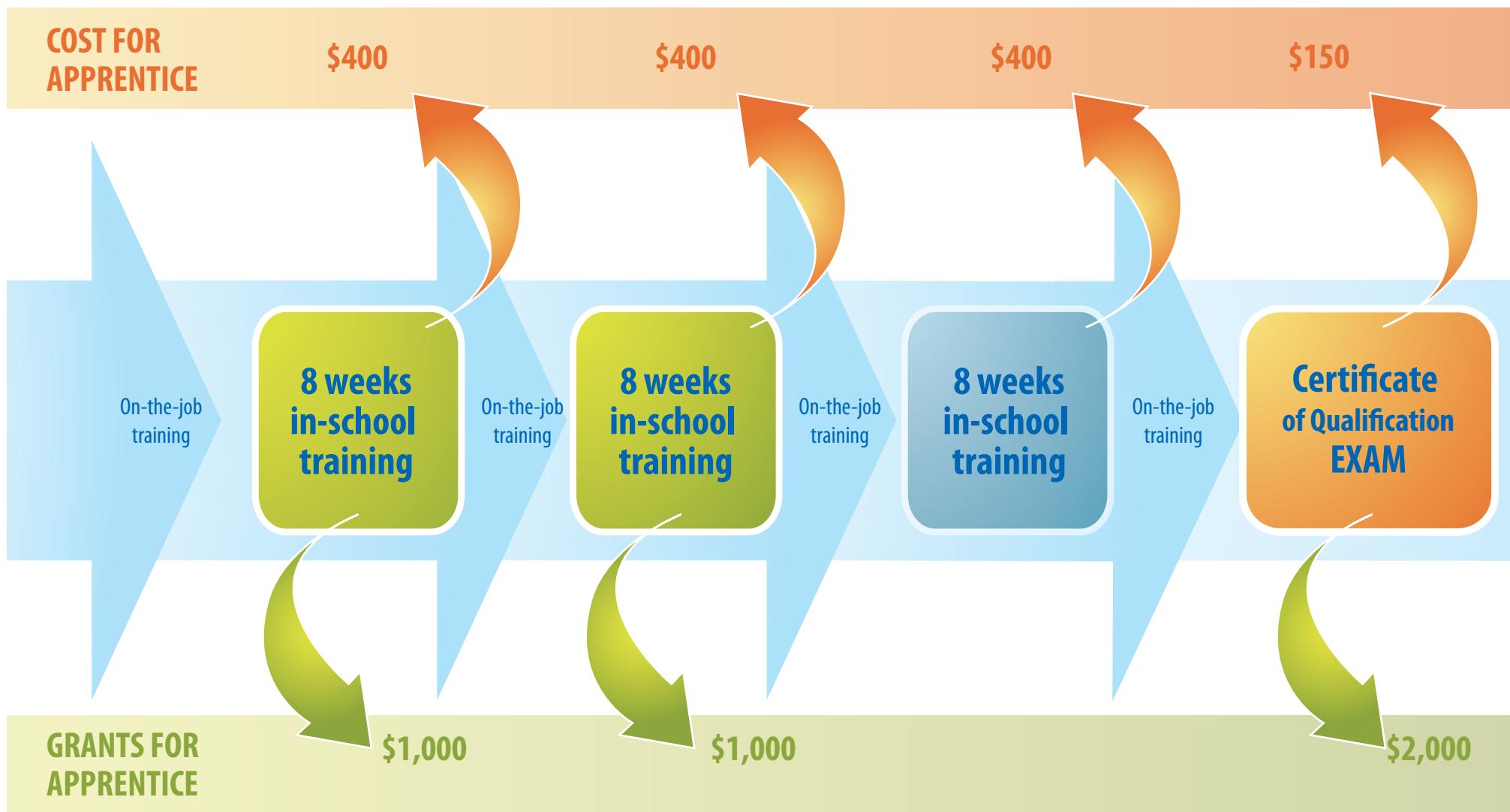
## Unofficial Ways of Referring to This Trade

- Truck and transport mechanic
- Bus mechanic
- Apprentice motor vehicle mechanic
- Transmission mechanic

# Truck and Coach Technician

Total training hours (on-the-job + in-school training) = 6,720

310T



# Truck-Trailer Service Technician

**Number of Hours:** 4,000 hours  
**Number of School Sessions:** 2 x 8 weeks (480 hours)  
**Compulsory Trade/Red Seal Trade**

**Trade Code:** 310J  
**NOC** 72410  
**Motive Power Sector**

## Description

- Reviews work orders and discusses work with supervisor
- Inspects truck-trailer systems and components using computerized diagnostic and other testing devices to diagnose and isolate faults
- Adjusts, repairs or replaces parts and components of truck-trailer systems including trailer electrical and electronic systems, trailer landing gear assemblies, trailer frames, hitching and coupling systems, trailer bodies, trailer suspension parts, tires, wheels, rims, hubs, and axles, air and auxiliary systems, trailer braking systems, trailer heating and refrigeration systems and ventilation devices and hydraulic systems, using hand tools and other specialized repair equipment
- Tests and adjusts repaired systems to manufacturer's performance specifications
- Performs scheduled maintenance service
- Advises customers on work performed, general trailer condition and future repair requirements

## Personal Qualities

- You are not bothered by standing on concrete all day
- You are willing to work indoors around loud noises, grease, oil, gasoline and various exhaust fumes
- You enjoy working to close tolerances
- You have the stamina to be on your feet for long periods of time and bend down and reach up frequently
- You have and use physical strength on the job
- You are willing to make a significant investment in tools

Review essential skills profile for additional qualities  
[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

Truck-trailer service technicians are employed at trailer manufacturing, sales and repair facilities

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- If you have completed 4,480 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Centennial College      Conestoga College

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at  
[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Automotive service technician
- Truck and transport mechanic
- Truck-trailer repairer





# Utility Arborist

**Number of Hours:** 5,340 hours  
**Number of School Sessions:** 2 x 12 weeks (660 hours)

**Trade Code:** 444B  
**NOC** 22114  
**Service Sector**

## Description

- Removes dangerous trees using industry approved techniques
- Conducts condition assessments within the electrical system rights of ways to determine the work to be completed
- Secures authorization to perform work, including from the general public, utility customers, government agencies, First Nations communities and landowner associations
- Uses different types of on- and off-road aerial devices to work at heights in urban, rural and off-road locations
- Operates on- and off-road equipment such as snow machines, all-terrain vehicles and large tracked aerial devices for work that is away from main highways
- Works with herbicides to control vegetation

## Personal Qualities

- You have good work ethic, quality skills and a great attitude
- You are able to work with a partner or as part of a crew of 2-6 people
- You are a team player
- You are willing to take direction and orders from supervisors
- You are willing to interact with customers when completing a project
- You are able to seek consent from landowners before they are able to undertake a project

## Career Opportunities and Other Details

- Employed by municipal, provincial, and federal public works departments, private contractors under contract with government public works departments and private companies involved in the collection of refuse and recyclable materials
- Perform maintenance on trees near overhead powerlines

## Minimum Academic Entry Level for Apprenticeship Registration

Grade 12 graduate or participating in high school co-op

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Humber College  
Hydro One – Smith Falls Sault College

Level 1 is common with 444A Arborist. For common core levels, check listings under the other trade for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at [www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

- Waste collection companies
- Municipal, provincial, and federal public works departments
- Snow removal and landscaping companies
- Privately-owned tree service companies

Employment Outlook  
[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects  
[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

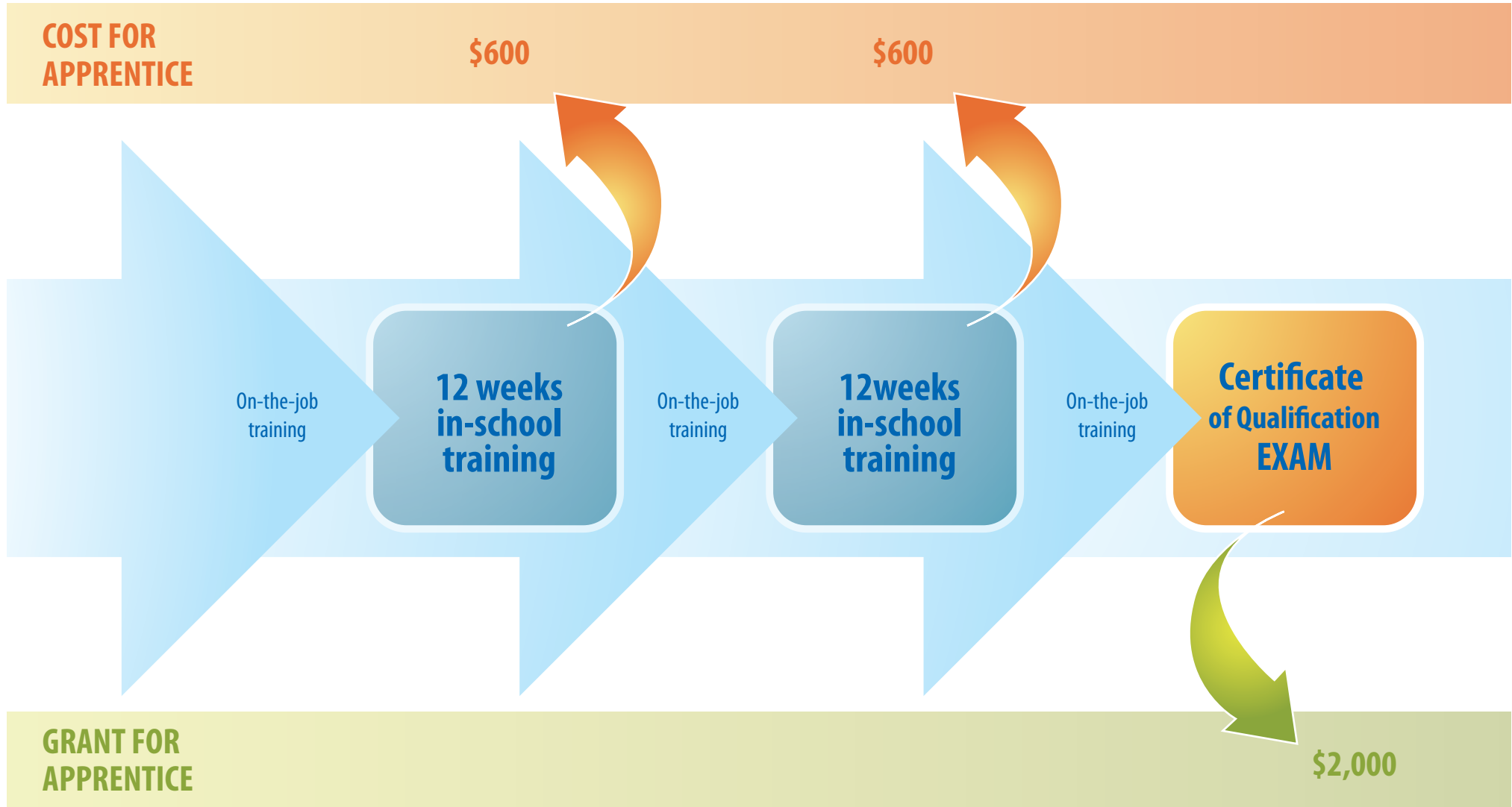
Financial incentives for employers sponsoring apprentices  
[www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

NON-COMPULSORY

# Utility Arborist

Total training hours (on-the-job + in-school training) = 6,000

444B



# Welder

**Number of Hours:** 5,280 hours

**Number of School Sessions:** 3 sessions – 1 x 10 weeks + 1 x 6 weeks + 1 x 8 weeks (720 hours)

**Red Seal Trade**

**Trade Code:** 456A

**NOC** 72106

**Industrial Sector**

## Description

- Reads and interprets blueprints or welding process specifications
- Lays out, cuts and forms metal to specification
- Fits sub-assemblies and assemblies together and prepares assemblies for welding
- Operates manual or semi-automatic welding equipment to fuse metal segments using processes such as gas tungsten arc (GTAW), gas metal arc (GMAW), flux-cored arc (FCAW), plasma arc (PAW), shielded metal arc (SMAW), oxy-acetylene (OAW), resistance welding and submerged arc welding (SAW)
- Operates metal shaping machines such as brakes, shears and other metal straightening and bending machines

## Personal Qualities

- You are able to work indoors with noise, vibrations and other hazards that are common to the job
- You enjoy working to close and exacting tolerances
- You are able to work in uncomfortable or unusual positions at times
- You have the stamina to be on your feet for long periods of time
- You have excellent hand/eye coordination and good eyesight

Review essential skills profile for additional skills

[www.jobbank.gc.ca/trend-analysis/search-occupations](http://www.jobbank.gc.ca/trend-analysis/search-occupations)

## Career Opportunities

- Welders work in the non-electrical, machinery, construction and metal-fabricating industries which include fabricating shops, manufacturers of structural steel and plate work, construction companies, boiler makers, heavy machinery contractors, aircraft contractors, ship building and other transportation contractors as well as specialized welding shops
- Some welders work on a project basis for contractors through a union

## Minimum Academic Entry Level for Apprenticeship Registration

- Minimum entry for apprenticeship is Grade 12 or actively participating in high school co-op
- If you have completed 6,000 hours of on-the-job experience/training but have not completed the apprenticeship program you may be eligible to write the Certificate of Qualification examination through an application process at [www.skilledtradesontario.ca](http://www.skilledtradesontario.ca)

## Postsecondary Schools Teaching the Provincial Curriculum for the Trade

NOTE: School registration is only done through the apprenticeship consultant assigned to you when your employer registers you as an apprentice.

See Appendix A, or <https://www.ontario.ca/page/employment-ontario-apprenticeship-offices>

Conestoga College	Durham College
Confederation College	Kemptville College
La Cité Collégiale	Mohawk College
Niagara College	Northern College Collège Boréal
A.P.R. Welding Academy – Sault Ste. Marie	
Cambrian, JTAC Local 46, Lambton, Six Nations Polytechnic,	
St. Lawrence, Technical Training Group (Stratford and Area),	
U.A. Local 67	
UA Local 527	

Level 1 is common with 437A Metal Fabricator (Fitter). For common core levels, check listings under the other trade for possibly more school choices.

## Potential Earnings

Apprentices may start at minimum wage or progress along a specific scale, increasing towards a journeyperson's wages over time.

See up-to-date reported earnings at

[www.services.labour.gov.on.ca/labourmarket/search.xhtml](http://www.services.labour.gov.on.ca/labourmarket/search.xhtml)

## Prospects For Employment

Employment Outlook

[www.jobbank.gc.ca/outlookreport/occupation/](http://www.jobbank.gc.ca/outlookreport/occupation/)

Explore the market by occupation and location, wages, and job prospects

[www.jobbank.gc.ca/trend-analysis](http://www.jobbank.gc.ca/trend-analysis)

## Financial Incentives

Financial incentives for registered apprentices [www.canada.ca/en/employment-social-development/services/apprentices/grants.html](http://www.canada.ca/en/employment-social-development/services/apprentices/grants.html)

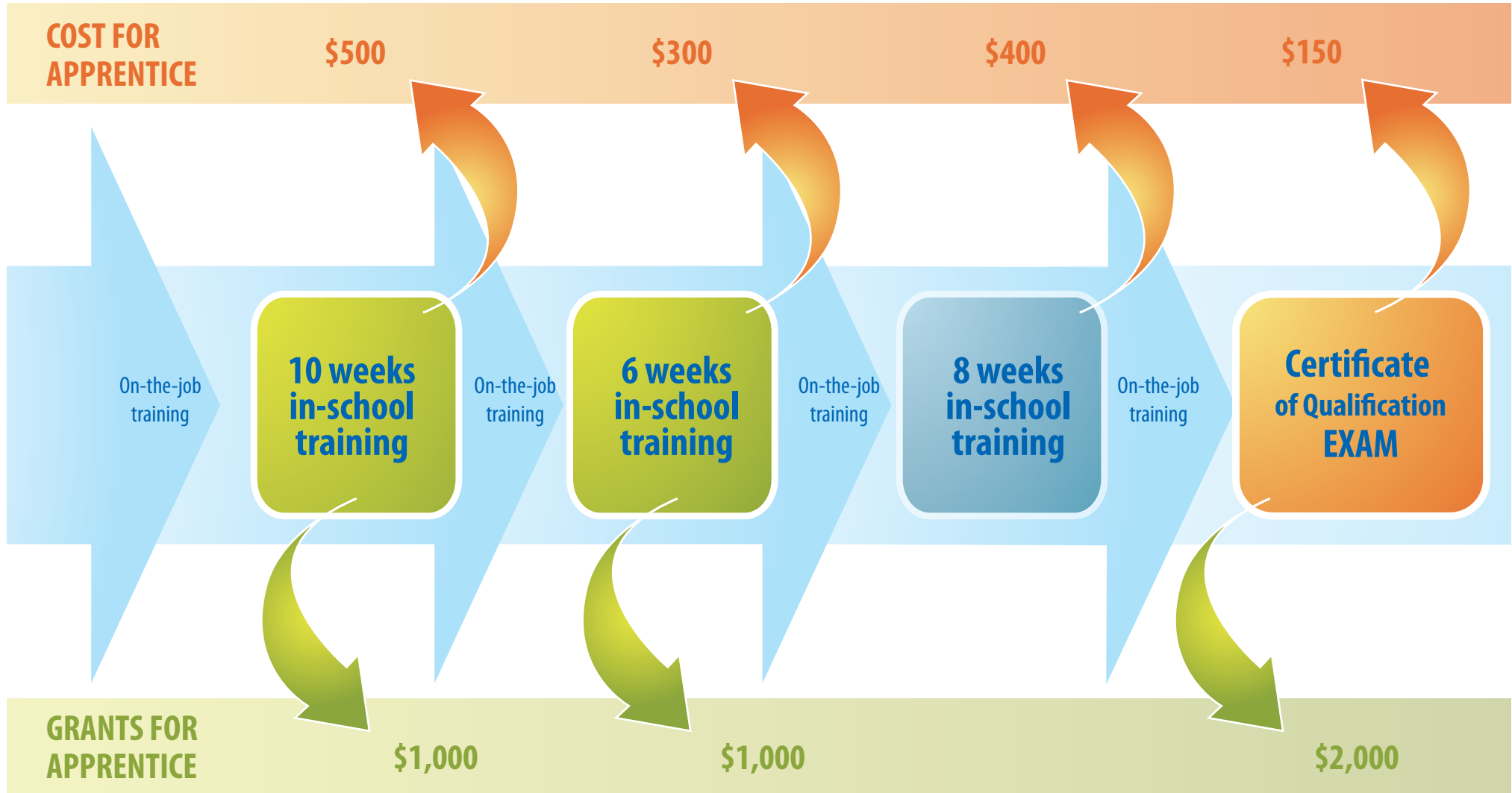
Financial incentives for employers sponsoring apprentices [www.ontario.ca/page/hire-apprentice#section-3](http://www.ontario.ca/page/hire-apprentice#section-3)

## Unofficial Ways of Referring to This Trade

- Structural welding technician
- Brazing machine operator
- Brazing machine setter
- Electric arc welder
- Pressure vessel welder

# Welder

Total training hours (on-the-job + in-school training) = 6,000







# Appendix A

## Appendix A – Employment Ontario Apprenticeship Offices

### Exam centres

Ministry offices across the province have on-site exam centres except:

Chatham, Dryden, Elliot Lake, Fort Frances, Geraldton, Halton, Kapuskasing, Marathon, Markham, and 2 St. Clair West, Toronto..

Non-ministry location: Based on demand, community-based exams can be arranged. Contact your local Employment Ontario office for details.

### **Barrie**

55 Cedar Pointe Drive, unit  
609 Barrie, Ontario  
L4N 5R7  
Tel: 705-737-1431  
Toll-free from area codes  
705/905: 1-800-560-3821  
SimcoeMuskoka@ontario.ca  
Fax: 416-326-5799

### **Belleville**

135 North Front Street  
Belleville, Ontario K8P 3B5  
Tel: 613-968-5558  
Toll-free: 1-800-953-6885  
appr.belleville@ontario.ca  
Fax: 613-968-2364

### **Brantford**

505 Park Road North, suite  
201 Brantford, Ontario  
N3R 7K8  
Tel: 519-756-5197  
HNB.Apprenticeship@  
ontario.ca

### **Chatham**

(no exam centre)  
870 Richmond Street West,  
Chatham, Ontario  
N7M 5J5  
Tel: 519-354-2766  
Toll-free: 1-800-214-8284  
appr.chatham@ontario.ca

### **Cornwall**

132 Second Street East,  
suite 202  
Cornwall, Ontario K6H 1Y4  
Tel: 613-938-9702  
Toll-free: 1-877-668-6604  
Appr.cornwall@ontario.ca  
Fax: 613-938-6627

### **Dryden**

(no exam centre) Provincial  
Government Building  
479 Government Street, 1st  
floor  
Dryden, Ontario P8N 3K9  
Tel: 807-456-2665  
Toll-free: 1-800-734-9572  
appr.kenora@ontario.ca

### **Durham**

78 Richmond St W, suite  
100 Oshawa, Ontario  
L1G 1E1  
Tel: 905-433-0595  
Toll-free: 1-800-461-4608  
Durham@ontario.ca Fax:  
416-326-5799

### **Elliot Lake** (no exam centre)

50 Hillside Dr N  
Elliot Lake, Ontario P5A 1X4  
Toll-free: 1-800-236-8817  
MTCUSaultSteMarie@  
ontario.ca

### **Fort Frances**

922 Scott Street, 2nd floor  
Fort Frances, Ontario P9A  
1J4  
Tel: 807-274-8634  
appr.kenora@ontario.ca Fax:  
807-274-5553

### **Geraldton**

208 Beamish Avenue West  
Geraldton, Ontario  
P0T 1M0  
Tel: 807-854-1966  
MLITSD.ThunderBay@  
ontario.ca  
Fax: 807-854-0335

### **Halton**

(no exam centre)  
700 Dorval Drive, suite 201  
Oakville, Ontario  
L6K 3V3  
Tel: 905-842-5105  
Toll-free: 1-844-901-5105  
Halton@ontario.ca  
Fax: 416-326-5799

### **Hamilton**

Ellen Fairclough Building  
119 King Street West, 8th  
floor Hamilton, Ontario  
L8P 4Y7  
Tel: 905-521-7764  
Toll-free: 1-800-668-4479  
HNB.Apprenticeship@  
ontario.ca

### **Kapuskasing**

Ontario Government  
Complex 122 Government  
Road West Kapuskasing,  
Ontario  
P5N 2X8  
Tel: 705-465-5785 or  
Tel: 705-235-1950  
timmins.MLITSD@ontario.ca

### **Kenora**

227½ Second Street South  
Kenora, Ontario  
P9N 1G4  
Tel: 807-468-2879  
Toll-free: 1-800-734-9572  
appr.kenora@ontario.ca Fax:  
807-468-2881

### **Kingston**

Alliance Business Centre  
299 Concession Street, suite  
201  
Kingston, Ontario K7K 2B9  
Tel: 613-548-1151  
Toll-free: 1-866-973-4043  
appr.kingston@ontario.ca  
Fax: 613-548-4120

### **Kitchener**

4275 King Street East, suite  
200  
Kitchener, Ontario N2P 2E9  
Tel: 519-653-5758  
Toll-free: 1-866-877-0099  
kitchener.apprenticeship@  
ontario.ca

### **London**

1200 Commissioners Road  
East, unit 72 London,  
Ontario N5Z 4R3  
Tel: 519-675-7788  
Toll-free: 1-800-265-1050  
appr.london@ontario.ca

### **Marathon**

52 Peninsula Road, Suite 103  
Marathon, Ontario  
P0T 2E0  
Tel: 807-346-1550  
MLITSD.ThunderBay@  
ontario.ca  
Fax: 807-346-1583

### **Markham**

(no exam centre)  
140 Allstate Parkway, Suite  
505 Markham, Ontario  
L3R 5Y8  
Tel: 905-513-2695  
York@ontario.ca Fax: 416-  
326-5799

### **North Bay**

200 First Avenue West, 1st  
floor North Bay, Ontario  
P1B 3B9  
Tel: 705-495-8515  
Toll-free: 1-800-236-0744  
northbay.MLITSD@ontario.  
ca Fax: 705-495-8517

## **Ottawa**

Preston Square  
347 Preston Street, suite  
310 Ottawa, Ontario  
K1S 3H8  
Tel: 613-731-7100  
Toll-free: 1-877-221-1220  
appr.ottawa@ontario.ca  
Fax: 613-731-4160

## **Owen Sound**

1450 1st Avenue West, suite  
100 Owen Sound, Ontario  
N4K 6W2  
Tel: 519-376-5790  
Toll-free: 1-800-838-9468  
owensound.  
apprenticeship@ ontario.ca

## **Peel**

The Emerald Centre  
10 Kingsbridge Garden  
Circle, suite 404  
Mississauga, Ontario L5R  
3K6  
Tel: 905-279-7333  
Toll-free: 1-800-736-5520  
Peel@ontario.ca  
Fax: 416-326-5799

## **Pembroke**

615 Pembroke Street East  
Pembroke, Ontario  
K8A 3L7  
Tel: 613-735-3911  
Toll-free: 1-800-807-0227  
appr.pembroke@ontario.ca  
Fax: 613-732-1576

## **Peterborough**

901 Lansdowne Street West  
Peterborough, Ontario  
K9J 1Z5  
Tel: 705-745-1918  
Toll-free: 1-877-433-6555  
appr.peterborough@ontario.  
ca  
Fax: 705-745-1926

## **Sarnia**

Bayside Mall  
150 Christina Street North,  
Suite 105  
Sarnia, Ontario N7T 7W5  
Tel: 519-542-7705  
Toll-free: 1-800-363-8453  
appr.sarnia@ontario.ca

## **Sault Ste. Marie**

477 Queen Street East, 4th  
floor  
Sault Ste Marie, Ontario P6A  
1Z5  
Tel: 705-945-6815  
Toll-free: 1-800-236-8817  
MLITSDSaultSteMarie@  
ontario.ca  
Fax: 705-945-6860

## **St Catharines**

Garden City Tower  
301 St Paul Street West,  
10th floor  
St Catharines, Ontario L2R  
7R4  
Tel: 905-704-2991  
Toll-free: 1-800-263-4475  
HNB.Apprenticeship@  
ontario.ca

## **Sudbury**

159 Cedar Street, suite 506  
Sudbury, Ontario  
P3E 6A5  
Tel: 705-564-3030  
Toll-free: 1-800-603-5999  
reception.sudbury@ontario.  
ca  
Fax: 705-564-3033

## **Thunder Bay**

189 Red River Road, suite  
103 Thunder Bay, Ontario  
P7B 1A2  
Tel: 807-346-1550  
Toll-free: 1-800-439-5493  
MLITSD.ThunderBay@  
ontario.ca  
Fax: 807-346-1583

## **Timmins**

Ontario Government  
Complex B Wing, ground  
floor  
5520 Highway 101 East  
South Porcupine, Ontario  
P0N 1H0  
Tel: 705-235-1950  
Toll-free: 1-877-275-5139  
Timmins.MLITSD@ontario.ca

## **Toronto**

(no exam centre)  
2 St Clair West, 11th floor  
Toronto, Ontario  
M4A 1L5  
Tel: 416-927-7366  
Toll-free: 1-800-387-5656  
Toronto@ontario.ca Fax:  
416-326-5799

## **Toronto South**

625 Church Street, 1st floor  
Toronto, Ontario  
M7A 2B5  
Tel: 416-326-5800  
TorontoSouth@ontario.ca  
Fax: 416-326-5799

## **Windsor**

Roundhouse Centre  
3155 Howard Avenue, suite  
200 Windsor, Ontario  
N8X 4Y8  
Tel: 519-973-1441  
Toll-free: 1-800-663-5609  
appr.windsor@ontario.ca





# Appendix B

## Appendix B – Apprenticeship Trades in the Province of Ontario

	PROGRAM	CODE	SECTOR	ENTRY GRADE	COMPULSORY CERTIFICATION	RED SEAL	BOSTA, REG. 876/21
1	Aboriginal Child Development Practitioner	620B	Service	12			
2	Agriculture – Dairy Herdsperson	640D	Service	12			
3	Agricultural – Fruit Grower	640F	Service	12			
4	Agricultural – Swine Herdsperson	640S	Service	12			
5	Agricultural Equipment Technician	425A	Motive	12		Yes	
6	Alignment & Brakes Technician	310E	Motive	12	Yes		
7	Appliance Service Technician	445A	Service	12		Yes	
8	Arborist	444A	Service	12			
9	Architectural Glass and Metal Technician	424A	Construction	10		Yes	Yes
10	Assistant Cook	415B	Service	10			
11	Auto Body & Collision Damage Repairer	310B	Motive	12	Yes	Yes	
12	Auto Body Repairer	310Q	Motive	10	Yes		
13	Automotive Electronic Accessory Technician	310K	Motive	12	Yes		
14	Automotive Glass Technician	274L	Motive	12			
15	Automotive Painter	410N	Motive	12		Yes	
16	Automotive Service Technician	310S	Motive	12	Yes	Yes	
17	Baker	423A	Service	12			
18	Baker/Pâtissier	423C	Service	12		Yes	
19	Bearings Mechanic	615A	Industrial	12			
20	Blacksmith	600P	Industrial	12			
21	Brick and Stone Mason	401A	Construction	10		Yes	Yes
22	Cabinetmaker	438A	Industrial	12		Yes	
23	Cement (Concrete) Finisher	244G	Construction	10		Yes	Yes
24	Chef	415C	Service	C/Q + 1 yr			
25	Child and Youth Worker	620A	Service	12			
26	Child Development Practitioner	620C	Service	12			
27	Computer numerical control (CNC) Programmer	670C	Industrial	C/Q			
28	Concrete Pump Operator	637C	Construction	12			
29	Construction Boilermaker	428A	Construction	10		Yes	Yes
30	Construction Craft Worker	450A	Construction	10		Yes	
31	Construction Millwright	426A	Construction	10			Yes
32	Cook	415A	Service	12		Yes	
33	Developmental Services Worker	620D	Service	12			
34	Die Designer	670D	Industrial	C/Q			
35	Draftsperson Tool and Die Design	614C	Industrial	12			
36	Draftsperson – Mechanical	614A	Industrial	12			
37	Draftsperson – Plastic Mould Design	614B	Industrial	12			

	PROGRAM	CODE	SECTOR	ENTRY GRADE	COMPULSORY CERTIFICATION	RED SEAL	BOSTA, REG. 876/21
38	Drywall, Acoustic and Lathing Applicator	451A	Construction	10		Yes	Yes
39	Drywall Finisher and Plasterer	453A	Construction	10		Yes	Yes
40	Educational Assistant	620E	Service	12			
41	Electric Motor System Technician	446A	Industrial	12			
42	Electrician – Construction and Maintenance	309A	Construction	10	Yes	Yes	Yes
43	Electrician – Domestic and Rural	390C	Construction	10	Yes		Yes
44	Electrician (Signal Maintenance)	289F	Industrial	12			
45	Electronic Service Technician	416E	Service	12			
46	Elevating Devices Mechanic	636E	Industrial	12			
47	Entertainment Industry Power Technician	269E	Industrial	12			
48	Exterior Insulated Finishing Systems Mechanic	455A	Construction	12			
49	Facilities Mechanic	255W	Industrial	12			
50	Facilities Technician	255B	Industrial	12			
51	Floor Covering Installer	448A	Construction	10		Yes	Yes
52	Fuel and Electrical Systems Technician*	310C	Motive	There are currently no new registrations being accepted for this trade.			
53	Gem setter/Goldsmith	606G	Service	12			
54	General Carpenter	403A	Construction	10		Yes	Yes
55	General Machinist	429A	Industrial	12		Yes	
56	Hairstylist	332A	Service	12	Yes	Yes	
57	Hazardous Materials Worker	253H	Construction	10			
58	Heat and Frost Insulator	253A	Construction	10		Yes	Yes
59	Heavy Duty Equipment Technician	421A	Motive	12		Yes	
60	Heavy Equipment Operator – Dozer	636C	Construction	12		Yes	
61	Heavy Equipment Operator – Excavator	636B	Construction	12		Yes	
62	Heavy Equipment Operator –Tractor Loader, Backhoe	636A	Construction	12		Yes	
63	Hoisting Engineer – Mobile Crane Operator 1	339A	Construction	10	Yes	Yes	Yes
64	Hoisting Engineer – Mobile Crane Operator 2	339C	Construction	10	Yes		Yes
65	Hoisting Engineer – Tower Crane Operator	339B	Construction	10	Yes	Yes	Yes
66	Horse Groom	600H	Service	12			
67	Horse Harness Maker	219D	Service	12			
68	Horticultural Technician	441C	Service	12		Yes	
69	Hydraulic/Pneumatic Mechanic	277Z	Industrial	12			
70	Industrial Electrician	442A	Industrial	12		Yes	
71	Industrial Mechanic Millwright	433A	Industrial	12		Yes	
72	Information Technology – Contact Centre Customer Service Agent	634E	Service	12			

	PROGRAM	CODE	SECTOR	ENTRY GRADE	COMPULSORY CERTIFICATION	RED SEAL	BOSTA, REG. 876/21
73	Information Technology – Contact Centre Sales Agent	634D	Service	12			
74	Information Technology – Contact Centre Technical Support Agent	634A	Service	12			
75	Information Technology –Hardware Technician	634B	Service	12			
76	Information Technology Network Technician	634C	Service	12			
77	Institutional Cook	415D	Service	12			
78	Instrumentation and Control Technician	447A	Industrial	12		Yes	
79	Ironworker – Generalist	420B	Construction	10		Yes	Yes
80	Ironworker – Structural and Ornamental	420A	Construction	10		Yes	Yes
81	Light Rail Overhead Contact Systems Linesperson	207S	Industrial	12			
82	Locksmith	259L	Industrial	12			
83	Machine Tool Builder and Integrator	430M	Industrial	12			
84	Marine Engine Technician	435B	Motive	12			
85	Metal Fabricator (Fitter)	437A	Industrial	12		Yes	
86	Micro Electronics Manufacturer	630A	Service	12			
87	Motive Power Machinist	410K	Motive	12			
88	Motorcycle Technician	310G	Motive	12	Yes	Yes	
89	Mould Designer	670E	Industrial	C/Q			
90	Mould Maker	431A	Industrial	12			
91	Mould or Die Finisher	277M	Industrial	12			
92	Native Clothing and Crafts Artisan	296B	Service	12			
93	Native Residential Construction Worker	296A	Construction	12			
94	Network Cabling Specialist	631A	Service	12			
95	Optics Technician (Lens and Prism Maker)	225A	Industrial	12			
96	Packaging Machine Mechanic	609C	Industrial	12			
97	Painter and Decorator – Commercial and Residential	404C	Construction	10		Yes	Yes
98	Painter and Decorator – Industrial	404D	Construction	10			Yes
99	Parts Technician	240P	Service	12		Yes	
100	Pattern Maker	443A	Industrial	12			
101	Plumber	306A	Construction	10	Yes	Yes	Yes
102	Powered Lift Truck Technician	282E	Motive	12			
103	Powerline Technician	434A	Construction	10		Yes	Yes
104	Precast Concrete Erector	244K	Construction	10			Yes
105	Precast Concrete Finisher	244L	Construction	10			Yes
106	Pressure Systems Welder	456P	Industrial	12			
107	Process Operator – Food Manufacturing	246T	Industrial	12			
108	Process Operator – Power	246R	Industrial	12			

	PROGRAM	CODE	SECTOR	ENTRY GRADE	COMPULSORY CERTIFICATION	RED SEAL	BOSTA, REG. 876/21
109	Process Operator – Refinery, Chemical and Liquid Processes	246F	Industrial	12			
110	Process Operator – Wood Products	246W	Industrial	12			
111	Railway Car Technician	268R	Industrial	12			
112	Recreation Vehicle Technician	690H	Motive	12		Yes	
113	Refractory Mason	401R	Construction	C/Q			
114	Refrigeration & Air Conditioning Systems Mechanic	313A	Construction	10	Yes	Yes	Yes
115	Reinforcing Rodworker	452A	Construction	10		Yes	Yes
116	Relay and Instrumentation Technician	288R	Industrial	12			
117	Residential Air Conditioning Systems Mechanic	313D	Construction	10	Yes		Yes
118	Residential (Low Rise) Sheet Metal Installer	308R	Construction	10	Yes		Yes
119	Restoration Mason	244H	Construction	10			Yes
120	Retail Meat Cutter	245R	Service	12			
121	Roofer	449A	Construction	10		Yes	Yes
122	Saddlery	219C	Service	12			
123	Saw Filer/Fitter	611B	Industrial	12			
124	Sheet Metal Worker	308A	Construction	10	Yes	Yes	Yes
125	Small Engine Technician	435A	Motive	12			
126	Special Events Coordinator	297B	Service	12			
127	Sprinkler and Fire Protection Installer	427A	Construction	10	Yes	Yes	Yes
128	Steamfitter	307A	Construction	10	Yes	Yes	Yes
129	Surface Blaster	278B	Industrial	12			
130	Surface Mount Assembler	630B	Industrial	12			
131	Terrazzo, Tile and Marble Setter	241A	Construction	10		Yes	Yes
132	Thin Film Technician	225F	Industrial	12			
133	Tool and Cutter Grinder	602C	Industrial	12			
134	Tool and Die Maker	430A	Industrial	12		Yes	
135	Tool and Gauge Inspector	239B	Industrial	C/Q			
136	Tool/Tooling Maker	630T	Industrial	12			
137	Tractor-Trailer Commercial Driver	638A	Industrial	10			
138	Transmission Technician	310D	Motive	12	Yes		
139	Truck and Coach Technician	310T	Motive	12	Yes	Yes	
140	Truck-Trailer Service Technician	310J	Motive	12	Yes	Yes	
141	Turf Equipment Technician	421C	Motive	12			
142	Utility Arborist	444B	Service	12			
143	Water Well Driller	605B	Industrial	12			
144	Welder	456A	Industrial	12		Yes	

**ENTRY GRADE** – Minimum education or certification required.

**BOSTA, REG. 876/21** – 33 trades are prescribed as trades that are subject to an apprentice to journeyperson ratio. As per the Ministry of Labour, Immigration, Training and Skills Development (MLITSD) guidelines, the remaining 111 trades have no legislated ratio (NLR). Employers need to check with MLITSD before signing any new apprentice as registrations (beyond OYAP) are considered on a case-by-case basis if the registration puts a company beyond a journeyperson to apprentice ratio of 1:1.





# Appendix C

## Academic Readiness for Apprenticeship Trades Where College Math and Science is Recommended

Although an Ontario Secondary School Diploma (OSSD) is the official prerequisite for most apprenticeships, high school students benefit from completing the following courses to help ensure success during in-school training for the skilled trades listed in the chart below. The Ontario Youth Apprenticeship Program (OYAP) allows individuals in high school (or adult learning centres) to become registered as apprentices while working towards their OSSD and while registered in trade-related cooperative education placements. Students who return for a 5th year of high school can also participate in OYAP, but they must sign the appropriate OYAP participant paperwork.

- Grade 11 Math - MBF3C or MCF3M suffice as highest math course for trades indicated below in **blue** without needing Grade 12 math.
- Grade 12 Math - MAP4C, unless intending to go to university in which case check university requirements.
- Grade 12 Math for Industrial Sector Trades in **precision metal cutting** - MCT4C recommended.
- Grade 11 or 12 Science - SPH4C or SCH4C, unless intending to go to university in which case check university requirements.

Construction Sector	Industrial Sector	Motive Power Sector	Service Sector
<ul style="list-style-type: none"> <li>• Architectural Glass &amp; Metal Technician</li> <li>• Construction Boilermaker</li> <li>• Electrician - Construction &amp; Maintenance</li> <li>• Electrician - Domestic &amp; Rural</li> <li>• <b>General Carpenter</b></li> <li>• Heavy Equipment Operator</li> <li>• Hoisting Engineer - Mobile &amp; Tower Crane</li> <li>• Ironworker</li> <li>• Millwright- Construction</li> <li>• <b>Plumber</b></li> <li>• Powerline Technician</li> <li>• Refrigeration A/C Systems Mechanic</li> <li>• Residential (Low Rise) Sheet Metal</li> <li>• Sheet Metal</li> <li>• Residential A/C Systems Mechanic</li> <li>• Sheet Metal Worker</li> <li>• Sprinkler &amp; Fire Protection Installer</li> <li>• Steamfitter</li> </ul>	<ul style="list-style-type: none"> <li>• Cabinetmaker</li> <li>• Elevating Devices Mechanic</li> <li>• Electrician - Industrial</li> <li>• Entertainment Industry Power</li> <li>• Technician Facilities Mechanic</li> <li>• <b>General Machinist</b></li> <li>• Industrial Mechanic Millwright</li> <li>• <b>Machine Tool Builder and Integrator</b></li> <li>• <b>Mould Maker</b></li> <li>• Metal Fabricator (Fitter)</li> <li>• Optics Technician (Lens &amp; Prism Maker)</li> <li>• Pattern Maker</li> <li>• Railway Car Technician</li> <li>• Saw Filer/fitter</li> <li>• Thin Film Technician</li> <li>• <b>Tool &amp; Die Maker</b></li> <li>• <b>Tool/Tooling Maker</b></li> <li>• Welder</li> </ul>	<ul style="list-style-type: none"> <li>• Alignment and Brake Technician</li> <li>• Agricultural Equipment Technician</li> <li>• Automotive Service Technician</li> <li>• Heavy Duty Equipment Technician</li> <li>• Motorcycle Technician</li> <li>• Powered Lift Truck Technician</li> <li>• Truck and Coach Technician</li> <li>• Transmission Technician</li> </ul>	<ul style="list-style-type: none"> <li>• *Arborist</li> <li>• *Horticulturist</li> <li>• *Utility Arborist</li> </ul> <p>NOTE *Consider Grade 11 or 12 SB13C (instead of SPH4C or SCH4C)</p>

## Academic Readiness for Apprenticeship Trades Where Workplace Math and Science is Sufficient

Although an Ontario Secondary School Diploma (OSSD) is the official prerequisite for most apprenticeships, high school students benefit from completing the following courses to help ensure success during in-school training for the skilled trades listed in the chart below. The Ontario Youth Apprenticeship Program (OYAP) allows individuals in high school (or adult learning centres) to become registered as apprentices while working towards their OSSD and while registered in trade-related cooperative education placements. Students who return for a 5th year of high school can also participate in OYAP, but they must sign the appropriate OYAP participant paperwork.

- Grade 11 Math – MEL3E is minimum level
- Grade 11 or 12 Science – SNC4E is minimum level

Construction Sector	Industrial Sector	Motive Power Sector	Service Sector
<ul style="list-style-type: none"> <li>· Brick and Stone Mason</li> <li>· Cement (Concrete) Finisher</li> <li>· Concrete Pump Operator</li> <li>· Drywall, Acoustic &amp; Lathing Applicator</li> <li>· Drywall Finisher and Plasterer</li> <li>· Exterior Insulated Finish Systems Mechanic</li> <li>· Floor Covering Installer</li> <li>· Hazardous Materials Worker</li> <li>· Heat &amp; Frost Insulator</li> <li>· Native Residential Construction Worker</li> <li>· Painter and Decorator, Commercial &amp; Residential</li> <li>· Painter and Decorator, Industrial</li> <li>· Precast Concrete Erector &amp; Finisher</li> <li>· Reinforcing Rodworker</li> <li>· Roofer</li> <li>· Terrazzo, Tile and Marble Setter</li> </ul>	-none-	<ul style="list-style-type: none"> <li>· Auto Body &amp; Collision Damage Repairer</li> <li>· Auto Body Repairer</li> <li>· Automotive Painter</li> <li>· Marine Engine Mechanic</li> <li>· Small Engine Technician</li> </ul>	<ul style="list-style-type: none"> <li>· *Agriculture Dairy Herdsperson</li> <li>· Assistant Cook</li> <li>· Baker</li> <li>· Baker-Pâtissier</li> <li>· Child &amp; Youth Worker</li> <li>· Child Development Practitioner</li> <li>· Cook (also consider Chemistry SCH4C) Developmental Services Worker Educational Assistant</li> <li>· Hairstylist (also consider Chemistry SCH4C)</li> <li>· *Horse Groom</li> <li>· IT Hardware Technician</li> <li>· IT Technology Network Technician</li> <li>· Network Cabling Specialist</li> </ul> <p>NOTE: *Consider Grade 11 or 12 SBI3C (instead of SPH4C or SCH4C)</p>





# Appendix D

# So Now You Are an Apprentice – Best Practices for Registered Apprentices

## What can I do to make my on-the-job training work for me?

- Be the driving force behind your own training program. If your apprenticeship training is going to work, you are going to have to make it work. You must be responsible for motivating yourself to succeed. It is up to you to apply yourself to your trade to the best of your ability.
- Know what is involved in your trade. Talk to journeypersons, employers or representatives of a local employer association for your trade, study on-line sources. Read your entire apprenticeship training standard log book as the contents describe everything you are trying to get good at!
- Know what tools you need for your trade (if applicable) and get them.
- Accept that experience pays off in the long run – don't expect high wages.
- Keep busy, look for tasks around the shop where you work. Show initiative. Recognize your employer's need for productivity.
- Be reliable and conscientious. Don't miss time. Go the extra mile.
- Understand apprentices need to work with a variety of personality types; don't be oversensitive to criticism.
- Ask questions, keep asking, ask until you have the answers.

## How do I monitor the progress of my on-the-job training?

- Apprentices should keep a personal training journal of jobs done and skills learned. A successful apprentice takes notes and keeps track of achievements. You can never remember everything.
- Your apprenticeship training standard log book has a list of major skill areas associated with your trade. This is an extremely useful tool for you and your employer to monitor where you have achieved competency and where you still require more training and to prepare you for examination topics. Be aware of what is in the book, keep your signatures up to date and as you believe you are fully competent at each task, sign it off.
- Be an active participant with your performance evaluations. Your employer may ask you to self-evaluate. For example, an employer may ask you to rate yourself on a scale of 1 to 4 in each task of the datum chart in your training standard log book. This can form the basis for a solid discussion between your employer and you.
- Communicate regularly with your journeyperson and employer. Seek feedback, find out where you stand.

## How can I ensure that I receive a well-rounded training experience?

- Know your trade! Use the apprenticeship training standard log book to keep track of which skills you have learned and to identify training needs. Keep your signatures in the book up to date as described above.
- Take notes. Maintain a journal with a record of the type of training you have received. Use this journal to help your employer in planning for future training.
- Your employer should give you regular performance evaluations and you should be monitored informally, too. Take advantage of these times to talk to your employer about your training needs. If you have been working in the same area for any length of time, for example, you might ask to be shifted to another area of the shop.
- Participate actively with your employer in developing a training plan for you. Unlike a high school setting, in an apprenticeship you have an opportunity to guide your own learning.
- If your employer is limited in the scope of work offered, you might consider seeking experience at a different workplace such as by asking your employer to assign you to another journeyperson so you can round out your training experience. If this is not possible, you may wish to consider changing employers if you have honestly and truly outgrown learning opportunities.

**What can I do if I feel I might not be suited to the trade in which I am training?**

**BE PATIENT**

It takes time to adjust to working in a trade. Think about why you feel unsuited. Is it the work environment? Would you be better off in a different trade or some other part of the industry?

**BE HONEST**

Understand that every day you stay on the job as an apprentice costs you and your employer money. Talk to your employer.

**GET HELP**

Your employer might be able to provide you with some career counselling and help steer you in a more suitable direction. Your assigned apprenticeship Employment and Training Consultant (see Appendix A for list of offices) may also provide you with advice.

**What can I do to obtain the support I need for supplementary training?**

**MAKE IT WORTHWHILE FOR YOUR EMPLOYER TO SUPPORT YOU**

Your employer recognizes the value of training, but you must show initiative and ability before they will support you in any extra training opportunities. Show your employer that you have a lot to contribute.

**BE ON THE LOOKOUT FOR TRAINING OPPORTUNITIES**

Be aware of skills upgrading courses and seminars. Be prepared to take courses on your own time. Check your local community college or night school or online offerings for supplementary or upgrading courses in math, science, communications or trades technology. Manufacturers of new products also offer training programs. Keep up to date with what is available in your area and take advantage of every opportunity.

**ASK FOR SUPPORT**

Some employers will subsidize your course fees if you successfully complete the course and if you can show that the course is relevant to your training requirements. Others may offer the flexibility in your work schedule so you can afford the time for extra training.

**What should I do if I have a problem with my on-the-job training experience?**

**TALK TO YOUR SUPERVISOR OR EMPLOYER**

- Apprentices should press for periodic written formal performance evaluations. For example, minimum frequency should be about every 2-3 months for a review of what tasks the apprentice has signed off in the training standard log book. Formal performance evaluations give important verification that you are progressing to the next level of your training.
- You can also contact your assigned Employment and Training Consultant (see Appendix A for a list of offices) for more support, career counselling and direction.
- Some industry associations can offer support.



# Appendix E



## Shared In-School Training Levels

Thinking of acquiring certification in more than one trade?

In a second apprenticeship, you won't repeat common core levels you have already passed.

### **425A Agricultural Equipment Technician**

Level 1, known as Commercial Vehicle and Equipment Common Core, is common with 421A Heavy Duty Equipment Technician; 282E Powered Lift Truck Technician; 310T Truck and Coach Technician  
Level 2 is common with 421A Heavy Duty Equipment Technician

### **444A Arborist**

Level 1 is common with 444B Utility Arborist

### **415B Assistant Cook**

Level 1 is common with 415A Cook

### **310B Auto Body and Collision Damage Repairer**

Levels 1 and 2 are common with 310Q Auto Body Repairer

### **310Q Auto Body Repairer**

Levels 1 and 2 are common with 310B Auto Body and Collision Damage Repairer

### **423A Baker**

Levels 1 and 2 are common with 423A Baker-Pâtissier

### **423C Baker-Pâtissier**

Levels 1 and 2 are common with 423A Baker

### **426A Construction Millwright**

Levels 1 and 2 are common with 443A Industrial Mechanic Millwright

### **415A Cook**

Level 1 is common with 415B Assistant Cook

### **309A Electrician – Construction and Maintenance**

Levels 1 and 2 are common with 309C Electrician – Domestic and Rural; 442A Industrial Electrician

### **309C Electrician – Domestic and Rural**

Levels 1 and 2 are common with 309A Electrician – Construction and Maintenance; 442A Industrial Electrician

### **255W Facilities Mechanic**

Level 1 is common with 255B Facilities Technician

### **255B Facilities Technician**

Level 1 is common with 255W Facilities Mechanic

### **429A General Machinist**

Level 1, known as Precision Machining and Tooling Common Core, is common with 430A Tool and Die Maker; 431A Mould Maker; 443A Pattern Maker; 430M Machine Tool Builder and Integrator; 630T Tool/Tooling Maker

### **421A Heavy Duty Equipment Technician**

Level 1, known as Commercial Vehicle and Equipment Common Core, are common with 425A Agricultural Equipment Technician; 282E Powered Lift Truck Technician; 310T Truck and Coach Technician  
Level 2 is common with 425A Agricultural Equipment Technician

### **636C Heavy Equipment Operator Branch 3 – Dozer**

Level 1 is common with 636B Heavy Equipment Operator Branch 2 – Excavator; Heavy Equipment Operator Branch 1 – Tractor Loader Backhoe

### **636B Heavy Equipment Operator Branch 2 – Excavator**

Level 1 is common with 636C Heavy Equipment Operator Branch 3 – Dozer; 636A Heavy Equipment Operator Branch 1 – Tractor Loader Backhoe

### **636A Heavy Equipment Operator Branch 1 – Tractor Loader Backhoe**

Level 1 is common with 636C Heavy Equipment Operator Branch 3 – Dozer; 636B Heavy Equipment Operator Branch 2 – Excavator

### **339A Hoisting Engineer – Mobile Crane Operator**

Level 1 is common with 339B Hoisting Engineer – Tower Crane Operator; 339C Hoisting Engineer – Mobile Crane Operator 2

### **339C Hoisting Engineer – Mobile Crane Operator**

2 Level 1 is common with 339A Hoisting Engineer – Mobile Crane Operator 1; 339B Hoisting Engineer – Tower Crane Operator

### **339B Hoisting Engineer – Tower Crane Operator**

Level 1 is common with 339A Hoisting Engineer – Mobile 1; 339C Hoisting Engineer – Mobile Crane Operator 2

### **442A Industrial Electrician**

Levels 1 and 2 are common with 309A Electrician – Construction and Maintenance; 309C Electrician – Domestic and Rural

### **443A Industrial Mechanic Millwright**

Levels 1 and 2 are common with 426A Construction Millwright

### **634B Information Technology Hardware Technician**

Level 1 is common with 634C Information Technology Network Technician

**634C Information Technology Network Technician**

Level 1 is common with 634B Information Technology Hardware Technician. For common core levels, check listings under the other trade for possibly more school choices.

**430M Machine Tool Builder and Integrator**

Level 1, known as Precision Machining and Tooling Common Core, is common with 429A General Machinist; 430A Tool and Die Maker; 431A Mould Maker; 443A Pattern Maker; 630T Tool/Tooling Maker

**435B Marine Engine Technician**

Level 1 and 2 are common with 435A Small Engine; 421C Turf Equipment Technician

**437A Metal Fabricator (Fitter)**

Level 1 is common with 456A Welder

**431A Mould Maker**

Level 1, known as Precision Machining and Tooling Common Core, is common with 429A General Machinist; 430A Tool and Die Maker; 443A Pattern Maker; 430M Machine Tool Builder and Integrator; 630T Tool/Tooling Maker

**404C Painter and Decorator – Commercial and Residential**

Levels 1 and 2 are common with 404D Painter and Decorator – Industrial

**404D Painter and Decorator – Industrial**

Levels 1 and 2 are common with 404C Painter and Decorator – Commercial and Residential

**443A Pattern Maker**

Level 1, known as Precision Machining and Tooling Common Core, is common with 429A General Machinist; 430A Tool and Die Maker; 431A Mould Maker; 430M Machine Tool Builder and Integrator; 630T Tool/Tooling Maker

**282E Powered Lift Truck Technician**

Level 1, known as Commercial Vehicle and Equipment Common Core, is common with 425A Agricultural Equipment Technician; 421A Heavy Duty Equipment Technician; 310T Truck and Coach Technician

**244K Precast Concrete Erector**

Level 1 is common with 244L Precast Concrete Finisher

**244L Precast Concrete Finisher**

Level 1 is common with 244K Precast Concrete Erector

**313A Refrigeration and Air Conditioning Systems Mechanic**

Level 1 is common with 313D Residential Air Conditioning Systems Mechanic

**313D Residential Air Conditioning Systems Mechanic**

Level 1 is common with 313A Refrigeration and Air Conditioning Systems Mechanic

**435A Small Engine Technician**

Levels 1 and 2 are common with 435B Marine Engine Technician; 421C Turf Equipment Technician

**430A Tool and Die Maker**

Level 1, known as Precision Machining and Tooling Common Core, is common with 429A General Machinist; 431A Mould Maker; 443A Pattern Maker; 430M Machine Tool Builder and Integrator; 630T Tool/Tooling Maker

Levels 2 and 3 are common with 630T Tool/Tooling Maker

**630T Tool/Tooling Maker**

Level 1, known as Precision Machining and Tooling Common Core, is common with 429A General Machinist; 430A Tool and Die Maker; 431A Mould Maker; 443A Pattern Maker; 430M Machine Tool Builder and Integrator

Levels 2 and 3 are common with 430A Tool and Die Maker

**310T Truck and Coach Technician**

Level 1, known as Commercial Vehicle and Equipment Common Core, is common with 421A Heavy Duty Equipment Technician; 425A Agricultural Equipment Technician; 282E Powered Lift Truck Technician.

**444B Utility Arborist**

Level 1 is common with 444A Arborist

**456A Welder**

Level 1 is common with 437A Metal Fabricator (Fitter)





