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There is a lot to know about the apprenticeable 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 can be the same as earning a college diploma or university degree. The entrance requirements are set by the Ministry of Training, Colleges and Universities (MTCU). While some skilled trades require Grade 10 completion as a minimum entry requirement, most employers prefer completion of Grade 12 or equivalent. A strong foundation in math, sciences, and communications is important for most trades. An apprenticeship can take 2 to 5 years to complete. For the skilled trades that are legislated by the Trades Qualification and Apprenticeship Act (TQAA), the training duration or number of required hours is a mandatory requirement. For the skilled trades that are legislated by the Apprenticeship Certification Act (ACA), completion of competencies is required and the training duration or number of hours is only a guideline.

Apprenticeship includes formal in-school training sessions plus learning on the job. About 90 percent of your training is on the job and the remaining 10 percent is academic or theoretical training. In-school training takes place in an approved training facility, either a community college or private facility. 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 number of weeks each year, in one continuous block of time). This is determined by Employment Ontario. Your formal classroom training continues throughout your apprenticeship. To find out more about training programs visit: <http://www.tableauellis.ca/home.jsp?lang=en>

Your apprenticeship costs include a classroom fee for academic or in school training, which is set by the approved training facility. In some cases an employer or union may reimburse you or pay a portion of this fee. If you do have to pay, and you are enrolled in a block training session, the cost can be offset by Employment Insurance benefits. Depending on the trade, you may also be expected to purchase and/or provide your own tools. You may be eligible for the Loans for Tools program and the Tradesperson's Tools Tax Deduction. These 2 programs may provide you with some financial assistance.

Wages differ for each skilled trade and vary depending on demand. Wages for apprentices registered under the TQAA are based on a percentage of a journeyperson's wage and increase with experience. Wages for apprentices registered under ACA are set by the individual employer and may start at minimum wage.

Trade Sectors

There are 4 trade sectors:

Construction - skilled trades found in this sector build and/or install services in homes, schools, office buildings and institutions. Examples include general carpenter, plumber and electrician.

Industrial - trades in this sector involve product manufacturing and equipment maintenance. Examples include tool and die maker, industrial millwright mechanic, and cabinetmaker.

Motive Power - trades in this sector repair and service automobiles, transportation equipment and small engines. Examples include automotive service technician, truck and coach technician and heavy duty equipment technician.

Service - trades in this diverse sector include hairstylist, early childhood educator and cook.

About the NOC

The National Occupational Classification (NOC) is the nationally accepted reference on occupations in Canada. It organizes over 30,000 job titles into 520 occupational group descriptions. It is used daily by thousands of people to compile, analyze and communicate information about occupations, and to understand the jobs found throughout Canada's labour market.

The NOC provides a standardized framework for organizing the world of work in a coherent system. It is used to collect and organize occupational statistics and to provide labour market information. The structure and content of the NOC is also implemented in a number of major services and products throughout the private and public sectors.

The NOC is updated in partnership with Statistics Canada according to 5-year Census cycles. It is based on extensive occupational research and consultations conducted across the country, reflecting the evolution of the Canadian labour market.

5 Steps of the Apprenticeship Process

No matter what skilled trade you are interested in, the apprenticeship process is the same.

Step 1 - Research

Take some of the vocational assessments included under the Labour Market Info tab to see what skilled trades suit YOU - your skills, your interests, your abilities, and your personality. Find out what the local labour market demand is for various skilled trades and consider a career that you would love to pursue. There are many sources of information including speaking with employers, apprentices, and journeypersons in the trade you're researching. You may also use the following sources:

The Internet

www.tradeability.ca, the Durham Region site devoted to the skilled trades and apprenticeships (this site contains a number of links and useful web sites under the Resources and Links section - search by specific trades or keywords)

www.whats-next.ca - What's Next?... Transition Strategies, a career & education planning agency

www.oyap.com/Links/ - Trade Unions and Associations: see individual profiles or visit and select unions and associations

www.ontario.ca/employmentontario or contact the Employment Ontario Hotline at 1-800-387-5656

www.edu.gov.on.ca/eng/tcu/adultlearning/ and click on school boards to find your local Adult Education facility

In School

Guidance Counsellors and the Cooperative Education department in your school

Step 2 - Education

While in High School

Students can get a head start on a career in the skilled trades. Careful course selection is important. We suggest you visit the following site for course information and pathways by trade:

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf and perhaps consider a co-op course.

What is OYAP?

The Ontario Youth Apprenticeship Program (OYAP) is a School to Work program that opens the door for student to explore and work in apprenticeship occupations starting in Grade 11 or Grade 12 through the Cooperative Education program.

Students have an opportunity to become registered apprentices and work towards becoming certified journeypersons in a skilled trade while completing their secondary school diplomas.

The goals of OYAP are:

- To provide students with the opportunity to start training in a skilled trade while completing the requirements for an Ontario Secondary School Diploma;
- To enable student to make the school to work transition by direct entry into apprenticeship training;

- To provide employers with the opportunity to train the skilled workers they require;
- To provide a viable solution to address the problem of skilled trades people shortages in general, and specifically the lack of young people joining the trades.

Additional information

is available at www.oyap.com

Simcoe District School Board :

www.oyapscdsb.com

Simcoe Muskoka Catholic District School Board :

www.oyapmcdsb.com

Your Options if You Have Left High School

Academic Upgrading

If you are 18 years of age and older and haven't completed your Grade 12 but would like to get into a trade, you can take academic upgrading courses through a College and the Continuing Education Departments within the various school boards. If you are under the age of 25, you and your employer may be eligible for a financial incentive if you complete your academic requirements. For more information contact the Employment Ontario Hotline at 1.800.387.5656 or visit: **www.ontario.ca/employmentontario**

Pre-apprenticeship Training

Pre-apprenticeship training programs help potential entrants to the apprenticeship system develop their job skills and trade readiness so that they will be prepared to find work as apprentices. This type of training is offered by private organizations, community colleges and Employment Ontario. Private organizations and community colleges charge a fee for this training, however the training offered by Employment Ontario is free to the participant. Pre-apprenticeship training offered by Employment Ontario could last up to 40 weeks and includes an 8 week placement. To find out what type of programs are available through Employment Ontario and where they are offered call the Employment Ontario Hotline at 1-800-387-5656 or visit: **www.ontario.ca/employmentontario**.

Post Secondary Programs

Community colleges offer one and two year programs that teach trade basics. Upon completion you receive a diploma or certificate. This training is not mandatory to get into an apprenticeship, however depending on the employer, completion may be viewed as a benefit.

Step 3 - Employment

To become an apprentice you must have an employer or union hire you and then register you as an apprentice with Employment Ontario. There is no all inclusive list of employers who hire apprentices.

Most apprenticeship opportunities are not advertised and you will only hear about them through networking. You can also get the names and phone numbers of potential employers through the yellow pages, trade associations, business directories, web sites, and articles in the paper.

To get started you will have to create a well-written resume that is focused on the specific trade. A résumé should illustrate the skills, education/training and experience that you can bring to an apprenticeship. It is also suggested that you prepare a cover letter to accompany your resume. If you need help in developing a resume, check out the Resume Builder on www.tradeability.ca, and select Create a Résumé <http://resumebuilder.tradeability.ca/>.

Once you get called for an interview make sure that you have researched your trade and the company. Take the Quiz! - <http://ultimatesurvey.fluidmedia.com/Surveys/TakeSurvey.aspx?surveyid=1047>, which is an interactive tool which you will find on our home page. See how prepared you are. When you go in person, be neat, clean and enthusiastic. Stay positive and above all, keep your goal in mind and don't give up.

When an employer offers you an apprenticeship they are preparing to invest a lot of time and money in you. To offset this investment, you may want to inform the employer of the financial benefits available to them for hiring an apprentice. Information can be found in Appendix A.

Step 4 – Training

You or your employer should contact Employment Ontario and arrange for an Employment and Training Consultant to register you as an apprentice. The consultant will come to your workplace where you will be asked to sign an apprenticeship training agreement or contract of apprenticeship between yourself, the employer and MTCU. There is a one time nominal fee involved when you are registered, which is payable by the apprentice. MTCU is responsible for scheduling you for your in-school training and providing you with your Apprenticeship Training Standard or Schedule of Training, which you must ensure is secure and up to date. They will also advise you of when and where you have been registered to attend in-school training. The school will contact you prior to your scheduled training and you will be responsible for paying your classroom fees prior to starting your classes.

An Employment and Training Consultant will be assigned to you and they will be your contact regarding your progress, training or inquiries regarding your apprenticeship.

Step 5 – Certification

There are two certificates associated with the apprenticeable skilled trades. If you complete the apprenticeship program you can apply for the Certificate of Apprenticeship. The Certificate of Qualification is mandatory for restricted, compulsory trades but is optional for unrestricted and voluntary trades.

Certificate of Apprenticeship (C of A)

Once you have completed your in-school training, the mandatory hours required for the skilled trades that are legislated by the Trades Qualification and Apprenticeship Act (TQAA), and all of the skills have been signed off in your Apprenticeship Training Standard or Schedule of Training, you should contact your Employment and

Training Consultant. MTCU does not automatically send out the Certificate of Apprenticeship. They will require a letter from your employer stating that you have completed the required number of hours of your apprenticeship, along with your Training Standard or Schedule of Training and proof that you have completed your schooling. It is important to apply and receive this certificate. Some employers may provide an incentive to an apprentice who completes the apprenticeship program and earns this certificate.

Certificate of Qualification (C of Q)

To receive journeyperson status, which is also referred to as a ticket and/or a trade licence, you will have to write the provincial qualification exam for your trade. Some employers may require that you have passed this exam as a condition of employment as it ensures that your skills and knowledge meet the industry standards. There is a fee to write your exam and is payable at the time you book your exam through your local Employment Ontario Apprenticeship office. The exam is approximately 3 hours in length and you require a minimum score of 70 percent to pass. If you are unsuccessful in achieving this minimum grade you can make arrangements to re-write the exam at a future date.

Challenge Exam

In some cases you can receive certification without going through the Apprenticeship Program. If you have performed the duties and skill sets for a skilled trade you may be eligible to challenge the Certificate of Qualification. This depends on the number of hours that you have worked in the trade and if you meet the eligibility requirements set by Employment Ontario. For more information contact Employment Ontario at 1.800.387.5656 or visit www.ontario.ca/employmentontario.

Protect your Certificate of Qualification

If you are certified in one of the compulsory or restricted trades, you are required to renew your certificate every 3 years. There is a fee payable to the Ministry of Training, Colleges and Universities to renew your certificate and late fees may be applied if you allow your certificate to expire. You have 3 options to renew and/or replace your Certificate of Qualification, on-line by visiting: www.asapro.edu.gov.on.ca/ASAWEB/GEP/ASAView.do?en=en, in person at any Employment Ontario Apprenticeship Office or by calling 1.800.448.9656. You will receive a dated sticker for your Certificate of Qualification plus a new wallet card.

“Red Seal” Trades

41 skilled trades offer “Interprovincial Qualification” upon completion of the Certificate of Qualification. These trades offer the added bonus of recognition in other provinces and even in some other countries. Refer to: www.red-seal.ca for more information.

Specific Information for Foreign Trained Tradespersons

Specific Information for Foreign Trained Tradespersons

www.workdestinations.org/home.jsp?lang=en

The Work Destinations website is the only site designed primarily for professional or skilled trades people moving within Canada and persons considering immigration to Canada. It includes 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.

www.edu.gov.on.ca/eng/training/foreign.html

A Guide for Foreign Trained Tradespeople provides information to those who wish to obtain a Certificate of Qualification to work in Ontario. To learn more, contact Employment Ontario, Pickering Office at 905.837.7721 or toll-free 1.800.461.4608.

www.cicic.ca/professions/professions-en.asp

The Canadian Information Centre for International Credentials provides information on what you need to know about the assessment and recognition of foreign credentials.

www.cic.gc.ca/english/immigrate/skilled/index.asp

If you are considering immigrating to Canada as a federal skilled worker, this site includes guides, information and forms on the process.

Specific Information for Women

www.drltb.com/divas-home.6.php

12 women who have achieved success in various skilled trades in Durham Region tell stories meant to inspire young women to consider the many benefits and opportunities in pursuing careers in the skilled trades.

www.citizenship.gov.on.ca/owd/english/

The Ministry of Citizenship and Immigration's Ontario Women's Directorate offers a Women in Skilled Trades (WIST) program which provides pre-apprenticeship training designed exclusively for women. The program is geared to increasing the number of women apprentices in the skilled trades. Women can also contact Ontario's Training Hotline and ask a counsellor to assess their employment and training needs in order to determine what programs and services would be appropriate. The Training Hotline number is 416.326.5656 or toll-free 1.800.387.0777.

www.ccwestt.org

The Canadian Coalition of Women in Engineering, Science, Trades and Technology promotes women in each of these fields and hosts a number of professional events.

www.wittnn.com

Women in Trades and Technology National Network is an education and advocacy organization dedicated to promoting and assisting in the recruitment, training and retention of women in trades, technology, operations and blue collar work.

<http://www.skillscanada.com/>

Skills Canada is a national, not-for-profit organization that actively promotes careers in skilled trades and technologies to Canadian youth.

Agricultural Equipment Technician

Number of Hours: 6280 hours
Number of School Sessions: 3 x 8 weeks
Grade Requirement: Grade 12
Red Seal Trade

Trade Code 425A
NOC 7312
Motive Power Sector

Description

- Test systems and components using computerized diagnostic and other testing devices to diagnose and isolate faults
- Adjust, repair or replace 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
- Inspect, diagnose and repair tillage and planting equipment, harvesting equipment, spraying and planting equipment, irrigation and distribution equipment, materials handling equipment, harvesting equipment, and precision farming equipment
- Test and adjust repaired systems to manufacturers performance specifications
- Perform scheduled maintenance service, such as oil changes, lubrications and tune-ups
- Advise customers on work performed, equipment condition and future repair requirements
- Inspect farm equipment motor in operation

Personal Qualities

- You will work indoors and outdoors repairing equipment that may have an unpleasant smell
- 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 have and use physical strength on the job
- You will make a very significant investment in tools
- You will work with computers and computerized machinery
- Review Essential Skills profile for additional qualities
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- 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 challenge the Certificate of Qualification

Training Availability

Fanshawe College

Potential Earnings

- Apprentices start according to individual company rates and progress along the company's wage scale over time
- Wages¹ range from \$13.00 to \$34.00 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow about as fast as the average for all occupations through the year 2009²
- Most tradespersons work full time for a single employer

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Job Futures

www.jobfutures.ca/noc/titles/7312.shtml

National Occupational Classification

www5.hrsdc.gc.ca/NOC/

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

Automotive Jobs

www.automotivejobs.ca

Canadian Automotive Repair and Service (CARS)

www.cars-council.ca

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Number of Hours: 5520 hours
Number of School Sessions: 2 x 8 weeks
Grade Requirement: Grade 12

Trade Code 640F
NOC 8251
Service Sector

Description

- Read and interpret fruit growing documentation and procedures including land preparation, transplanting, plant training support systems, fertilization, crop protection, density/thinning and propagation
- Develop layout block designs and prepare, fertilize, fumigate, spray, and cultivate the land
- Transplant plants by preparing plants, staking/trellising plants, planting fruit trees, small fruit plants, vines, and protecting, irrigating and fertilizing plants
- Perform propagation procedures
- Perform harvesting and grading techniques
- Operate and maintain farm tractors and accessories, farm trucks, harvesting equipment, chain saws and power pruners, irrigation systems, packing line systems and equipment cold storage and controlled atmospheric facilities, air compressors and systems
- Perform general farm duties
- Knowledge and application of requisite health and safety acts and regulations

Personal Qualities

- You can work both inside and outside in the fresh air
- You are in good physical condition and like working hard
- You don't mind working long hours when climatic conditions permit
- You have the stamina to be on your feet all day
- You are able to bend down and straighten up frequently
- You are very safety conscious when using chemicals and powered equipment

Career Opportunities

- A fruit grower works for any establishment that grows, harvests and markets fruit for consumer consumption or processing

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- Completion of a 5,520 hour apprenticeship program is required

Training Availability

Niagara College

Potential Earnings

- Apprentices may start at minimum wage or according to individual farm scale, increasing towards a journey person's wage over time
- Wages¹ typically range from \$9.90 to \$18.61 an hour, excluding overtime, with journey persons earning the higher end of the pay scale

Prospects For Employment

- Employment for this occupational group will be limited through 2009²
- There is a long-term trend toward a smaller number of larger farms which will result in fewer employment opportunities
- Employment opportunities are linked to the fruit growing economy and are impacted by the weather and imports

Financial Incentives

- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Ontario Federation of Agriculture
www.ofa.on.ca/site/home.asp

Ministry of Agriculture, Food and Rural Affairs
www.omafr.gov.on.ca/english/

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Number of Hours: 5520 hours
Number of School Sessions: 2 x 8 weeks or 480 hours
Grade Requirement: Grade 12

Dairy Trade Code 640D
Swine Trade Code 640S
NOC 8253
Service Sector

Description

- Formulate a feeding program
- Maintain livestock/swine performance records
- Carry out a pasture or pen breeding program
- Perform breeding/gestation, farrowing and finishing procedures
- Recognize and treat certain livestock/swine health problems
- Prepare and perform milking procedures
- Perform manure management procedures
- Operate and maintain barn mechanical and electrical systems
- Operate and maintain farm mechanical systems
- Perform general farm duties
- Knowledge and application of requisite health and safety acts and regulations

Personal Qualities

- You 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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- Completion of a 5,520 hour apprenticeship program

Training Availability

University of Guelph - Kemptville College
University of Guelph - Ridgetown College

Potential Earnings

- Apprentices may start at minimum wage or according to farm/corporate scale, increasing towards a journeyperson's wage over time
- Wages¹ typically range from \$9.10 to \$15.55 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow at a less than average rate for all occupations through the year 2009²
- Employment opportunities are linked to the farming economy and corporatization of family farms

Financial Incentives

Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Ontario Federation of Agriculture
www.ofa.on.ca/site/home.asp

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

¹ www.labourmarketinformation.ca

² www.careermatters.org

Aircraft Maintenance Mechanic

Number of Hours: 7200 hours
Number of School Sessions: 4 x 9 weeks
Grade Requirement: Grade 12

Trade Code 610C
NOC 7315
Industrial Sector

Description

- Certify airworthiness of airframe, piston and turbine engines, avionics and electrical/electronic systems, propellers and rotary systems
- Troubleshoot aircraft structural, mechanical or hydraulic systems to identify problems and adjust and repair systems according to specifications, technical drawings, manuals and established procedures
- Repair and overhaul aircraft structural, mechanical or hydraulic systems
- Install or modify aircraft engines, mechanical, hydraulic, flight control, fuel and pneumatic systems
- Dismantle airframes, aircraft engines or other aircraft systems for repair, overhaul and cleaning, and reassemble
- Perform and document routine maintenance

Personal Qualities

- You will have significant responsibility since lives will depend on your mechanical skills
- You will work indoors where noise and vibrations are common
- You enjoy working to close and exacting tolerances
- Some of your work will be on ladders or lifts and you need to be physically flexible
- You have the stamina to be on your feet for long periods of time
- You demonstrate honesty and integrity
- You like to learn new things on a consistent basis
- Review Essential Skills profile for additional skills
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

- Aircraft maintenance engineers usually specialize in working on specific aircraft systems such as engines, engine accessories, airframes, propellers, mechanical components or hydraulic systems and specific kinds of aircraft, such as light aircraft, jet transports or helicopters and may work for aeronautics companies, airlines, municipal airports, cargo carriers or the military
- Aircraft maintenance engineers may work for small, medium or large size companies on a full time basis

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- Completion of a 7,200 hour apprenticeship program is required
- Aircraft maintenance engineers who sign maintenance releases and certify airworthiness require an Aircraft Maintenance Engineer's (AME) license issued by Transport Canada

Training Availability

Red River College - Stevenson Campus
Portage La Prairie, MB
www.rrc.mb.ca

Canadian Flyers International Inc.
Toronto, ON
www.canadianflyers.com

Potential Earnings

- Apprentices start according to individual company rates and progress according to the company's wage scales over time
- Wages¹ range from \$14.00 to \$24.65 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is average and expected to grow as fast as average for all occupations through the year 2009²
- Most tradespersons work full time for a single employer

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Transport Canada
www.tc.gc.ca/air/menu.htm#technicians

Job Futures
www.jobfutures.ca/noc/7315.shtml

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Number of Hours: 5400 hours
 Number of School Sessions: 2 x 12 weeks
 Grade Requirement: Grade 12

Trade Code 444A
 NOC 2225
 Service Sector

Description

- Work as part of a team in a safe and efficient manner
- Select, adjust, wear and maintain safety clothing and equipment.
- Protect self and others by carefully handling and carrying chainsaws and other tree maintenance equipment, mounting and dismounting equipment, and observing danger zones
- Plan work in an effective manner to ensure optimum job efficiency and effectiveness
- Use hand, electrical, gas, hydraulics, and pneumatically powered tools
- Remove, buck and limb trees or parts of same by using a variety of techniques and equipment
- Work at heights utilizing a personal safety support system; climb trees with and without spurs; and select work positions required by the task
- Inspect woody plants to identify deficiencies/damage and to determine required method of pruning, perform various types of pruning cuts to correct deficiencies and/or obtain desired results
- Inspect woody plants for damage and determine method of repair to ensure healthy plants
- Identify signs and symptoms of major pest types; comply with relevant legislation; perform cultural, biological, and chemical pest control; perform various methods of application and calibrate application equipment
- Apply fertilizer using surface, sub-surface, foliar, and injection or implant methods; irrigate by surface and sub-surface watering; and aerate zone of woody plants
- Inspect, handle, and transport nursery stock; dig bare root or balled in burlap woody plants manually or mechanically; plant and perform related operations and follow-up maintenance

Personal Qualities

- You will 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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- 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 challenge the Certificate of Qualification
- An arborist must satisfactorily complete safety training as mandated by the Occupational Health and Safety Act

Training Availability

Humber College
 Lambton College

Potential Earnings

- Apprentices start according to individual company rates and progress along the company's wage scale
- Wages¹ range from \$12.50 to \$24.50 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow the same rate as the average for all occupations through the years
- Employment opportunities are full time with many hours in peak seasons or after storms and other emergencies

Financial Incentives

Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Landscape Ontario
www.hort-trades.com

National Occupational Classification
www5.hrsdc.gc.ca/NOC

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

¹ www.labourmarketinformation.ca

Architectural Glass and Metal Technician

Number of Hours: 4 x 2000 hours
Number of School Sessions: 3 x 8 weeks
Grade Requirement: Grade 10
Red Seal Trade

Trade Code 424A
NOC 7292
Construction Sector

Description

- Read and interpret blueprints and specifications to determine type and thickness of glass, frame, installation procedure and materials required
- Measure and mark glass and cut glass using glass cutters or computerized cutters
- Assemble, erect and dismantle scaffolds, rigging and hoisting equipment
- Position glass panes into frames and secure glass using clips, points or mouldings
- Assemble and install prefabricated glass, mirrors or glass products on walls, ceilings or exteriors of buildings
- Fabricate metal frames for glass installation
- Install pre-cut mirrors and opaque and transparent glass panels in frames to form exterior walls of buildings
- Replace glass in furniture and other products
- Repair and service residential windows, commercial aluminum doors and other glass supporting structures, and replace damaged glass or faulty sealant

Personal Qualities

- You may be required to work at considerable heights
- You will 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
www10.hrsdc.gc.ca/es/12english/all_profiles.aspx

Career Opportunities

- 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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 10; however, it is recommended you complete grade 12 with credits in Math, 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 challenge the Certificate of Qualification

Training Availability

Ontario Industrial Finishing Skills Centre
Toronto, ON
www.oifsc.com

Potential Earnings

- Apprentices start according to individual company rates and progress along the company's wage scale
- Wages¹ range from \$18.00 to \$36.45 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Ratio for journeyperson/apprentice is 1:1 or 2:1
- Employment is expected to grow about as fast as the average for all occupations through the year 2014²
- Employment opportunities are linked to the economy and are somewhat cyclical

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Made With the Trades
www.madewiththetrades.com/exploretrades.php

Ontario Construction Secretariat
www.iciconstruction.com

¹ www.labourmarketinformation.ca

² www.careersinconstruction.ca

Auto Body and Collision Damage Repairer

Number of Hours: 7280 hours
Number of School Sessions: 3 x 8 weeks
Grade Requirement: Grade 12
Compulsory Trade/Red Seal Trade

Trade Code 310B
NOC 7322
Motive Power Sector

Description

An Auto Body and Collision Damage Repairer repairs and replaces frame and structural components, mechanical components, electrical components, plastic and composite panels, sheet metal panels, and glass and glass assemblies. They are responsible for diagnosing and repairing electronic systems and assessing damages.

Other duties include:

- Repairing, reshaping, and refitting body panels, fenders, and skirting's
- Welding breaks in body panels, fenders and skirting's
- Shrinking or stretching metal body panels by heat treatment
- Removing or replacing electrical, electronic and vacuum components
- Repairing, removing or replacing wiring harnesses, air conditioning systems and water pumps
- Straightening and aligning frame and unibody assemblies
- Removing, replacing or adjusting steering and suspension components
- Aligning wheels

Personal Qualities

- You 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
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12 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 challenge the Certificate of Qualification

Training Availability

Centennial College	Fanshawe College
Mohawk College	Canadore College
Algonquin College	

Potential Earnings

- Apprentices may start at minimum wage or according to individual company rates and increase towards a journeyperson's wage over time
- Wages¹ range from \$10.00 to \$23.00 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow about as fast as the average for all occupations through the year 2009²
- Most tradespersons work full time for a single employer
- Demand for Auto Body and Collision Damage Repairers will increase as the number of motor vehicles in operation continues to grow

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Collision Industry Information Centre
www.ciia.com

Job Futures
www.jobfutures.ca/noc/7322.shtml

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

Automotive Industries Association of Canada
www.aiacanada.com

Canadian Automotive Repair and Service (CARS)
www.cars-council.ca/

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Number of Hours: 5520 hours
Number of School Sessions: 2 x 8 weeks
Grade Requirement: Grade 10
Compulsory Trade

Trade Code 310Q
NOC 7322
Motive Power Sector

Description

- An Auto Body Repairer is defined as a person who repairs motor vehicle bodies and components, plastic and 14nglish14ss parts, glass and related components, self belt retractor systems and trim components and hardware. Other duties include:
- Repairing, reshaping, and refitting body panels, fenders, and skirting's
- Welding breaks in body panels, fenders and skirting's
- Shrinking or stretching metal body panels by heat Treatment

Personal Qualities

- You 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 www10.hrsdc.gc.ca/es/14nglish/all_profiles.aspx

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

Educational/Training Requirements

- The minimum entry for apprenticeship 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 challenge the Certificate of Qualification

Training Availability

Centennial College
Canadore College
Fanshawe College

Potential Earnings

- Apprentices may start at minimum wage or according to individual company rates, increasing towards a journeyperson's wage over time
- Wages¹ range from \$10.00 to \$23.00 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow about as fast as the average for all occupations through the year 2009²
- Most tradespersons work full time for a single employer

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Automotive Industry's Information Centre
www.ciia.com

Job Futures
www.jobfutures.ca/noc/7322.shtml

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

Automotive Industries Association of Canada
www.aiacanada.com

Canadian Automotive Repair and Service (CARS)
www.cars-council.ca/

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Number of Hours: 3760 hours
Number of School Sessions: 240 hours
Grade Requirement: Grade 12

Trade Code 274L
NOC 7321
Motive Power Sector

Description

An Automotive Glass Technician is defined as a person who repairs, removes and installs glass and windshields in motorized and automotive vehicles. Duties include:

- Understanding and practicing safety precautions to protect yourself and others
- Repairing trim and related components
- Repair and replace bonded glass, mechanically fastened stationary glass, mechanically fastened movable glass, gasket-mounted glass
- Producing and interpreting template sketch and cut glass for automotive or motorized vehicles
- Estimating the cost of repair or replacement of glass and related components
- Performing visual inspection of vehicle, performing detailing and verifying the detail of vehicle
- Having effective communication skills

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 have good mental dexterity
- You have the ability to stand for long periods of time
- You like to learn new things
- Review Essential Skills Profile for additional skills
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

- Automotive Glass Technicians usually work in auto glass specialty businesses, automobile dealerships
- Some Automotive Glass Technicians become self-employed or start their own businesses

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- Completion of a 3,760 hour apprenticeship is required

Training Availability

Information not available at this time, contact
Employment Ontario at 905-837-7721 or 1-800-461-4608

Potential Earnings

- Apprentices may start at minimum wage, increasing towards a journeyperson's wage over time
- Wages¹ range from \$10.00 - \$25.50 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow at a rate slightly faster than that of the average rate for all occupations through the year 2009²

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Collision Industry Information Assistance
www.ciia.com/provinces/ontario/training.html

Automotive Industries Association of Canada
www.aiacanada.com/

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Number of Hours: 4560 hours
Number of School Sessions: 1 x 8 weeks
Grade Requirement: Grade 12
Red Seal Trade

Trade Code 410N
NOC 7322
Motive Power Sector

Description

- An Automotive Painter is defined as a person who refinishes motor vehicle bodies by sanding, spot filling, priming, conditioning and painting. Other duties include:
- Read work orders and inspect condition of vehicle
 - Sand repaired body surface using hand and power tools, spot fill and prime
 - Mask and tape for multi-tone paint work and protective requirements
 - Prepare paint booth equipment
 - Mix paint and components and match colours
 - Use equipment, brush or spray guns to apply primer, paint, enamel, lacquer or other non-metallic protective and decorative coatings to automobiles
 - Dry or bake newly painted surfaces
 - Refinish galvanized outer panels and anodized aluminum mouldings
 - Apply decals, transfers, stencils and other types of identification to finished paint work
 - Inspect job and repair faults
 - Apply or restore anti-corrosion treatments

Personal Qualities

- You will 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
www10.hrsdc.gc.ca/es/16english/all_profiles.aspx

Career Opportunities

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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- 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 challenge the Certificate of Qualification

Training Availability

Centennial College
Algonquin College

Potential Earnings

- Apprentices may start at minimum wage or according to individual company rates, increasing towards a journeyperson's wage over time
- Wages¹ range from \$10.00 to \$23.00 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Most tradespersons work full time for a single employer
- Employment is expected to grow about as fast as the average for all occupations through the year 2009²

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Occupational Analysis
www.red-seal.ca

Automotive Industry's Information Centre
www.ciia.com

Job Futures
www.jobfutures.ca/noc/7322.shtml

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

Automotive Industries Association of Canada
www.aiacanada.com

Canadian Automotive Repair and Service (CARS)
www.cars-council.ca

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Number of Hours: 6500 hours
Number of School Sessions: 3 x 8 weeks
Grade Requirement: Grade 12
Compulsory Trade/Red Seal Trade

Trade Code 310S
NOC 7321
Motive Power Sector

Description

- Review work orders and discuss work with supervisor
- Inspect motor in operation, road test vehicle, and test automotive systems and components using computerized diagnostic and other testing devices to diagnose and isolate faults
- Adjust, repair or replace 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
- Test and adjust repaired systems to manufacturer's performance specifications
- Perform scheduled maintenance service such as oil changes, lubrications and tune-ups
- Advise customers on work performed, general vehicle conditions and future repair requirements

Personal Qualities

- Able to work indoors and tolerate loud noises, grease, oil and gasoline fumes
- Enjoy working to close and exacting tolerances
- Have the stamina to be on your feet for long periods of time and must bend down and reach up frequently
- Not bothered by standing on concrete all day
- Have and use physical strength on the job
- Work with computers and computerized equipment
- Review Essential Skills profile for additional qualities
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- 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 challenge the Certificate of Qualification

Training Availability

Durham College	La Cité Collégiale
Algonquin College	Conestoga College
Confederation College	Loyalist College
Canadore College	Mohawk College
Collège Boréal	Niagara College
Fanshawe College	St. Clair College
St. Lawrence College	Sault College

Potential Earnings

- Apprentices may start at minimum wage or according to individual company rates and increasing towards a journeypersons wage over time
- Wages¹ range from \$10.00 to \$25.50 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow faster than the average for all occupations through the year 2009²
- Most tradespersons work full time for a single employer

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Automotive Industry's Information Centre
www.ciaa.com

Job Futures
www.jobfutures.ca/noc/7321.shtml

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

Automotive Industries Association of Canada
www.aiacanada.com

Canadian Automotive Repair and Service (CARS)
www.cars-council.ca

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Number of Hours: 5280 hours
 Number of School Sessions: 2 x 12 weeks
 Grade Requirement: Grade 12

Trade Code 423A
 NOC 6252
 Service Sector

Description

- Responsible for understanding and practicing safety precautions to protect yourself and others
- Have a thorough understanding of business practices in order to develop and maintain a rapport with coworkers, maintain inventory control and develop a production schedule amongst other things
- Bake bread, buns, rolls by straight or sponge dough and yeast raised pastry
- Produce paste/dough products and puff pastry
- Bake cookies, pies, tarts and squares
- Prepare and produce basic fillings
- Produce batters which will later be baked
- Responsible for producing aerated products
- Able to produce fillings, icings and creams
- Responsible for producing and finishing cakes
- 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 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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- Completion of a 5,280 hour apprenticeship program is required

Training Availability

George Brown College
 Niagara College

Potential Earnings

- Apprentices may start at minimum wage, increasing towards a journeyperson's wage over time
- Wages¹ range from \$8.75 to \$20.00 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects for Employment

- Employment is expected to grow about as fast as the average for all occupations through the year 2009²
- Employers frequently look to hire those individuals who have completed an apprenticeship

Financial Incentives

- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

The Baking Association of Canada
www.baking.ca

Canadian Pastry Chefs Guild
www.canadianpastrychefsguild.ca

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Baker-Pâtissier (Cake and Pastry Specialist)

Number of Hours: 6130 hours
Number of School Sessions: 2 x 12 weeks
Grade Requirement: Grade 12
Red Seal Trade

Trade Code 423C
NOC 6252
Service Sector

Description

- Responsible for understanding and practicing safety precautions to protect yourself and others
- Have a thorough understanding of business practices in order to develop and maintain a rapport with coworkers, maintain inventory control and develop a production schedule amongst other things
- Bake bread, buns, rolls by straight or sponge dough and yeast-raised pastry
- Produce paste/dough products and puff pastry
- Bake cookies, pies, tarts and squares
- Prepare and produce basic fillings
- Produce batters which will later be baked
- Responsible for produce aerated products
- Able to produce fillings, icings and creams
- Produce and finish cakes
- Able to produce decorated and specialty items in addition to confectionery items
- Responsible for producing ices
- 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 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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- 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 challenge the Certificate of Qualification

Training Availability

George Brown College

Potential Earnings

- Apprentices may start at minimum wage, increasing towards a journeyperson's wage over time
- Wages¹ range from \$8.75 to \$20.00 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale
- Some Baker-Pâtissiers may earn considerably more depending on experience, their place of employment and areas of expertise

Prospects For Employment

- Employment is expected to grow about as fast as the average for all occupations through the year 2009²
- Employers frequently look to hire those individuals who have completed an apprenticeship

Financial Incentives

- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant.
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

The Baking Association of Canada

www.baking.ca

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

Canadian Pastry Chefs Guild

www.canadianpastrychefsguild.ca/

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Number of Hours: 4 x 1400 hours
Number of School Sessions: 3 x 8 weeks
Grade Requirement: Grade 8
Red Seal Trade

Trade Code 401A
NOC 7281
Construction Sector

Description

- Lay brick and stone, concrete blocks, structural tiles and other kinds of masonry in residential, commercial and industrial settings
- Read sketches and blueprints to calculate materials required
- Cut and trim bricks and concrete blocks to specification using hand and power tools
- Construct, erect, install and repair walls, arches, paving, floors, fireplaces, chimneys, smokestacks and other such structures
- Lay radial bricks to build masonry shells of industrial chimneys
- Install firebricks to line industrial chimneys, furnaces, kilns, boilers and similar installations
- Lay bricks, stone or similar materials to provide veneer facing to walls or other surfaces
- Lay bricks or other masonry units to build patios, garden walls and other decorative installations

Personal Qualities

- You may be required to work in cramped areas or at considerable heights
- You work outdoors in changeable climatic conditions
- You have the stamina to be on your feet for long periods of time
- You need to be 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
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 8, 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 challenge the Certificate of Qualification

Training Availability

Canada Masonry Centre Mississauga, ON
www.canadamasonrycentre.com/omtc/

LIUNA

Local 183 - Training Centre Cobourg, ON
www.183training.com

Conestoga College
Fanshawe College

St. Lawrence College
St. Clair College

Potential Earnings

- Apprentices progress initially from 40% to 80% of journeyperson's wages over time
- Wages¹ range from \$21.00 to \$33.50 an hour, excluding overtime with journeypersons usually earning the higher end of the pay scale.

Prospects for Employment

- Ratio for journeyperson/apprentices is 1:1 or 3:1
- Employment is average and is expected to grow as fast as average for most occupations through the year 2014²
- The long-term forecast for the employment of Brick and Stone Masons is expected to be slower than that of other construction trades due to a slowdown in residential homebuilding
- Employment opportunities are linked to the economy and the housing market and are cyclical

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Made With the Trades
www.madewiththetrades.com/index.html

Ontario Construction Secretariat
www.iciconstruction.com

¹ www.labourmarketinformation.ca

² www.careersinconstruction.ca/

Number of Hours: 7280 hours
 Number of School Sessions: 3 x 8 weeks
 Grade Requirement: Grade 12
Red Seal Trade

Trade Code 438A
 NOC 7272
 Industrial Sector

Description

- Study plans, specifications or drawings of articles to be made or prepare specifications
- Understand materials selection
- Mark outlines or dimensions of parts on wood
- Proficient in the operation of woodworking machines such as power saws, jointers, mortises and shapers; use hand tools to cut, shape and form parts and components
- Trim joints and fit parts and subassemblies together to form complete unit using glue and clamps; reinforce joints using nails, screws or other fasteners
- Sand wooden surfaces and apply veneer, stain or polish to finished products
- Repair or restyle wooden furniture, fixtures and related products
- Estimate amount, type and cost of materials required

Personal Qualities

- You work inside and are 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
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- 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 challenge the Certificate of Qualification

Training Availability

Conestoga College	Fanshawe College
Algonquin College	Niagara College

Potential Earnings

- Apprentices may start at minimum wages or according to company scale and increase to a journeyperson's wage over time
- Wages¹ range from \$12.00 to \$22.35 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is average and is expected to grow as fast as average for all occupations through the year 2009²
- Employment opportunities are linked to the economy and the housing market

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca/

Cement (Concrete) Finisher

Number of Hours: 4500 hours
Number of School Sessions: 2 x 8 weeks
Grade Requirement: Grade 10

Trade Code 244G
NOC 7282
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

- Able to work without close supervision
- Able to bend and stoop to work
- Able to work around high noise
- Able to work in a variety of weather conditions
- 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

Educational/Training Requirements

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

Training Availability

LIUNA

Local 183 - Training Centres in Vaughan, Cobourg, Toronto and Barrie (check website for training schedules)
www.183training.com

Potential Earnings

- Apprentices will progress towards a journeyperson's wage over time
- Wages¹ range from \$16.00 to over \$28.65 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment for this occupation is expected to be balanced until 2014²
- Cement finishers who work on construction projects may experience periods of idleness as they wait for new work following completion of a project and lay-offs also tend to occur during the winter months

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Ontario Construction Secretariat
www.iciconstruction.com

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Operative Plasterers', Cement Masons and Restoration Steeplejacks International Association
www.opcmialocal598.com/

¹ www.labourmarketinformation.ca

² www.careersinconstruction.ca

Number of Hours: 3 years at 2000 hours per year
Number of School Sessions: 1 x 8 weeks
Grade Requirement: Grade 8

Trade Code 419A
NOC 7282
Construction Sector

Description

- Check formwork, granular base and steel reinforcement materials and direct placement of concrete into forms or onto surfaces according to grade
- Fill hollows and remove high spots, smooth freshly poured concrete
- Operate power vibrator to compact concrete
- Level top surface of concrete according to grade and depth specifications using straightedge or float
- Impart desired finish to concrete surfaces using hand and power tools
- Install anchor bolts, steel plates, door sills and other fixtures in freshly poured concrete
- Apply hardening and sealing compounds to cure surface of concrete
- Waterproof, damp-proof and restore concrete surfaces
- Repair, resurface and replace worn or damaged sections of floors, walls, roads, curbs and other concrete structures

Personal Qualities

- You work outdoors in changeable climatic conditions
- You are exposed to water, noises and vibrations
- You have the stamina to be on your feet for long periods of time
- You are in good physical condition
- You have some artistic ability and the ability to pay attention to detail
- You enjoy working with hand and power tools

Career Opportunities

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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 8, however most employers require Grade 12
- Completion of a 3 year apprenticeship program at 2,000 hours per year

Training Availability

Canada Masonry Centre Mississauga, ON
www.canadamasonrycentre.com/omtc

LIUNA

Local 183 - Training Centres in Vaughan, Cobourg, Toronto and Barrie (check website for training schedules)
www.183training.com

Potential Earnings

- Apprentices progress initially from 60% to 90% of journeyperson's wages over time
- Wages¹ range from about \$16.00 to \$28.65 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Ratio for journeyperson/apprentice is 1:1 or 4:1
- Employment is expected to grow at an average rate for most occupations through the year 2009²
- Employment opportunities are linked to the economy and are cyclical

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathway.pdf

National Occupational Classification

www5.hrsdc.gc.ca/NOC/

Made with the Trades

www.madewiththetrades.com/exploretrades.php

Ontario Construction Secretariat

www.iciconstruction.com

¹ www.labourmarketinformation.ca

² www.jobfutures.ca/

Number of Hours: 2260 hours
 Number of School Sessions: 360 hours
 Grade Requirement: Grade 12

Trade Code 415C
 NOC 6241
 Service Sector

Description

- May plan menus, determine portions, estimate food requirements and costs, and monitor and order supplies
- Ensure quality of products meet established standards
- Has a working knowledge of table service, soups and sauces, salads and dressings, weights and measures, hygiene, equipment handling, sanitation, safety and equipment.
- Has an understanding of stock controlling, receiving, issuing, menu planning and food costs and purchasing.
- Prepare and cook complete meals or specialty foods, such as pastries, sauces, soups, salads, vegetables and meat, poultry and fish dishes, and create decorative food displays for special events such as banquets
- Instruct and supervise cooks and other staff in preparation, cooking, garnishing and presentation of food
- Create new recipes

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
- Review Essential Skills profile for additional qualities
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12, Certificate of Qualification for Cook, Branch 2 and working plus one year of experience as a Red Seal Cook, Branch 2
- Completion of a 2,260 hour apprenticeship program is required

Training Availability

George Brown College	Humber College
Algonquin College	Confederation College
Fleming College	Georgian College

Potential Earnings

- Apprentices progress along the wage scale of their specific employer
- Wages¹ for this NOC code typically range from \$10.40 to \$21.05 an hour, excluding overtime, with journey persons usually earning the higher end of the pay scale
- Some chefs depending on their training and experience make considerably more money depending on the organization where they work

Prospects For Employment

- Employment is expected to grow as fast as the average for all occupations through the year 2009²

Financial Incentives

- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Canadian Federation of Cooks and Chefs
www.cfcc.ca/en

Escoffier Society - Toronto
www.escoffiertoronto.com

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca/

Number of Hours: 6240 hours
Number of School Sessions: 32 weeks
Grade Requirement: Grade 12

Trade Code 620A
NOC 4212
Service Sector

Description

- Protect self 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
- Practice and promote health through consultations with health professionals, social agencies, and by monitoring health and emotional problems
- Communicate with clients, colleagues and other health and social professionals
- Build relationships with clients by demonstrating interest in the client, responding to client's behaviour, building self-esteem and negotiating focused goals
- Plan and set up appropriate programs by identifying client's physical, mental, and emotional requirements
- Work in a group setting by planning, organizing, leading, and facilitating group activities
- Work with the family to assist in identifying and assessing client's needs
- Establish goals and plans of action
- Participate as a member in a team environment by promoting and maintaining professional conduct, resolving conflict, acknowledging individual differences and supporting team members
- Perform 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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- Completion of a 6,240 hour apprenticeship program is required

Training Availability

Centennial College	Humber College
Georgian College	Mohawk College

Potential Earnings

- Apprentices progress along a wage scale according to their particular company's scale or in the case of unionized workers, according to their collective agreement
- Wages¹ typically range from \$13.00 to \$28.65 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is to grow at the average rate for all occupations through the year 2009²
- Employment opportunities are linked to government spending on community and health resources
- Most child and youth workers work full time for a single employer

Financial Incentives

- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Ontario Association of Child and Youth Counsellors
www.oacyc.org

Job Futures
www.jobfutures.ca/noc/4212.shtml

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca/

Number of Hours: 24 months
Number of School Sessions: 240 hours
Grade Requirement: Grade 10

Trade Code 670C
NOC 2233
Industrial Sector

Description

- Design parts and components for equipment using Auto CAD (computer-assisted design)
- Create programs specific to CNC, DNC and NC controlled machines
- Translate electronic designs into tool paths and generate cutter paths
- Read and interpret blueprints
- Have an in-depth knowledge of NC

Personal Qualities

- You have good organizational and planning skills
- You have good blueprint reading skill
- You have an in-depth knowledge of NC codes
- You have the ability to produce efficient and cost effective NC programs
- You have an understanding of fixture design
- You have strong math skills and good communication and problem-solving skills

Educational/Training Requirements

- People who program and operate CNC equipment are usually skilled trade people such as Tool & Die Makers, Mould Makers and General Machinists
- The minimum entry for apprenticeship is Grade 10
- Some employers/unions may require Grade 12

Training Availability

Conestoga College	Georgian College
Durham College	Seneca College
Fanshawe College	

Potential Earnings

- A fully qualified CNC Programmer can earn \$14 to \$34 per hour

Prospects For Employment

Employment opportunities and wages vary across the region.

Financial Incentives

- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant.
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

Ontario Job Futures

www.ontariojobfutures.ca

Number of Hours: 4 years at 1650 hours per year

Number of School Sessions: 3 x 8 weeks

Grade Requirement: Grade 10

Red Seal Trade

Trade Code 428A

NOC 7262

Construction Sector

Description

- Read blueprints or specifications to plan sequence of operation
- Lay out plate, sheet steel or other heavy metal and mark bending and cutting lines on work piece using protractors, compasses and drawing instruments or templates
- Set up and operate heavy-metal working machines such as brakes, rolls, shears, flame cutters and drill presses to cut, shape and form metal into parts or sections
- Fit and weld metal parts or sections together to fabricate boilers, vessels, tanks, heat exchangers, piping and other heavy-metal products
- Erect and install boilers and other heavy-metal products according to specifications using hand and power tools
- Repair and perform maintenance work on boilers and other heavy-metal products
- Direct activities of hoist or crane operators and other workers during fabrication, assembly, installation or repair of structures
- Test finished structures using a variety of methods
- Boilermakers may specialize in rigging and hoisting, preparation and layout, and welding aspects of the trade

Personal Qualities

- You may be required to work in cramped areas
- You like to work outdoors, sometimes at great heights
- You may be exposed to heat, cold, dust and fumes
- You 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
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

- 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

Educational/Training Requirements

- 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 challenge the Certificate of Qualification

Training Availability

Humber College

International Brotherhood of Boilermakers, Burlington, ON
<http://128.boilermaker.ca>

Potential Earnings

- Apprentices progress initially from 60% to 90% of journeyperson's wages over time
- Wages¹ range from \$19.40 to \$36.25 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Ratio for journeyperson/apprentice is 1:1 or 3:1
- Employment is expected to grow about as fast as the average for all occupations through the year 2009²
- Employment opportunities are subject to fluctuations and are affected by the economy

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Boilermakers Local 128
www.ibblocal128.org

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

Made With the Trades
www.madewiththetrades.com/exploretrades.php

Ontario Construction Secretariat
www.iciconstruction.com

¹ www.labourmarketinformation.ca

² www.labourmarketinformation.ca

Number of Hours: 2400 hours
Number of School Sessions: 2 x 8 weeks
Grade Requirement: Grade 10
Red Seal Trade

Trade Code 450A
NOC 7611
Construction Sector

Description

- Read blueprints
- Prepare, excavate, backfill, compact and cleanup work sites
- Load and unload construction materials, move materials to work areas
- Erect and dismantle concrete forms, scaffolding, ramps, catwalks, shoring and barricades required at construction sites
- Mix, pour and spread materials such as concrete and asphalt
- Assist varied tradespersons such as carpenters, bricklayers, cement finishers, roofers and glaziers in construction activities
- Level earth to fine grade specifications using rake and shovel
- Assist in demolishing buildings using prying bars and other tools and sort, clean and pile salvaged materials
- Remove rubble and other debris at construction sites using rakes, shovels, wheelbarrows and other equipment
- Operate pneumatic hammers, vibrators and tampers as directed
- Tend or feed 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 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
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

- 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

Educational/Training Requirements

- 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 challenge the Certificate of Qualification

Training Availability

Collège Boréal	Conestoga College
George Brown College	Northern College

LIUNA
Local 183 - Training Centre Cobourg, ON
www.183training.com

Ambercroft Labourers' 506 Training Centre
Richmond Hill, ON
www.506tc.org/

Potential Earnings

- Apprentices progress towards earning a journeyperson's wages and many make around 60% of the journeyperson's wage
- Wages¹ range from \$12.00 to \$30.00 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- In respect to other Construction trades, the Construction Craft Worker is expected to grow at a faster rate than the average. The long-term forecast for the Construction Craft Worker is expected to be good
- Employment opportunities are linked to the economy and are cyclical

Financial Incentives

- Employers who employ first and second year apprentices in this trade can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices in this trade are able to apply for the Apprenticeship Incentive Grant
- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Made With the Trades
www.madewiththetrades.com/exploretrades.php

Ontario Construction Secretariat
www.iciconstruction.com

¹ www.labourmarketinformation.ca

Number of Hours: 4 years at 2000 hours per year
Number of School Sessions: 3 x 8 weeks
Grade Requirement: Grade 10

Trade Code 426A
NOC 7311
Construction Sector

Description

- Read blueprints, diagrams and schematic drawings to determine work procedures
- Install, align, dismantle and move stationary industrial machinery and mechanical equipment such as pumps, fans, tanks, conveyors, furnaces and generators according to layout plans using hand and power tools
- Operate hoisting and lifting devices such as cranes, jacks and tractors to position machinery and parts during the installation, set-up and repair of machinery
- Inspect and examine machinery and equipment to detect and investigate irregularities and malfunctions
- Install, troubleshoot and maintain power transmission, vacuum, hydraulic and pneumatic systems, and programmable logic controls
- Adjust machinery and repair or replace defective parts
- Operate machine tools such as lathes and grinders to fabricate parts required during overhaul, maintenance or set-up of machinery
- Construct foundations for machinery or direct other workers to construct foundations
- Assemble machinery and equipment prior to installation using hand and power tools and welding equipment

Personal Qualities

- You 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

Educational/Training Requirements

- 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 challenge the Certificate of Qualification

Training Availability

George Brown College
Cambrian College
Sheridan College

Potential Earnings

- Apprentices progress initially from 60% to 90% of journeyperson's wages over time
- Wages¹ range from \$16.91 to \$35.00 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Ratio for journeyperson/apprentice is 1:1 or 4:1
- Employment is expected to be balanced through the year 2014²
- Most of the work is performed by union construction millwrights who are hired by contractors through a union local
- Employment opportunities are cyclical with peaks and valleys throughout the year

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Millwrights Regional Council of Ontario
www.millwrightsontario.com/

Job Futures
www.jobfutures.ca/noc/7311.shtml

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Made with the Trades
www.madewiththetrades.com/exploretrades.php

Ontario Construction Secretariat
www.iciconstruction.com

¹ www.careersinconstruction.ca/

² www.careersinconstruction.ca/

Number of Hours: 2640 hours
Number of School Sessions: 12 weeks
Grade Requirement: Grade 10

Trade Code 415B
NOC 6242
Service Sector

Description

- Prepares and assembles sandwiches, simple salads and non-alcoholic beverages
- Responsible for carving 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
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

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

Educational/Training Requirements

- 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 challenge the Certificate of Qualification

Training Availability

Fleming College	George Brown College
Algonquin College	Georgian College
St. Lawrence College	Canadore College
Centennial College	Confederation College
Fanshawe College	Humber College
Lambton College	Niagara College
St. Clair College	Sault College
Conestoga College	

Potential Earnings

- Apprentices may start at minimum wage or according to company's wage scale, increasing towards a journeyperson's wage over time
- Wages¹ typically range from \$8.75 to \$16.00 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale
- Some cooks, with additional training and experience, become chefs and make considerably more money

Prospects For Employment

- Employment is expected to grow as fast as the average for all occupations through the year 2009²
- There is an increased demand for cooks in the summer months due to tourism

Financial Incentives

- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Canadian Federation of Cooks and Chefs
www.cfcc.ca/en

Escoffier Society - Toronto
www.escoffiertoronto.com

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

Canadian Restaurant and Foodservices Association (CRFA)
www.crfa.ca

International Association of Culinary Professionals (IACP)
www.iacp.com

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Number of Hours: 5280 hours
 Number of School Sessions: 2 x 12 weeks
 Grade Requirement: Grade 12
Red Seal Trade

Trade Code 415A
 NOC 6242
 Service Sector

Description

- Carve 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
- Prepare complete meals, desserts, pastries, salad dressing, hot and cold buffet, baked foods, soups and sauces, sandwiches, simple salads and non-alcoholic beverages
- Have 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
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- 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 challenge the Certificate of Qualification

Training Availability

Fleming College	George Brown College
St. Lawrence College	Conestoga College
Fanshawe College	Lambton College
St. Clair College	

Potential Earnings

- Apprentices may start at minimum wage or according to company's wage scale, increasing towards a journey person's wage over time
- Wages¹ typically range from \$8.75 to \$16.00 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale
- Some cooks, with additional training and experience, become chefs and make considerably more money

Prospects For Employment

- Employment is expected to grow as fast as the average for all occupations through the year 2009²
- There is an increased demand for cooks in the summer months due to tourism

Financial Incentives

- Employers who hire first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction
- Apprentices are able to apply for the Apprenticeship Incentive Grant

Additional Information

Canadian Federation of Cooks and Chefs
www.cfcc.ca/en

Escoffier Society - Toronto
www.escoffiertoronto.com

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

Canadian Restaurant and Foodservices Association (CRFA)
www.crfa.ca

International Association of Culinary Professionals (IACP)
www.iacp.com

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Number of Hours: 3720 hours
Number of School Sessions: 780 hours
Grade Requirement: Grade 12

Trade Code 620D
NOC 4212
Service Sector

Description

A Developmental Services Worker supports individuals who have a developmental disability to enhance their ability to function within all aspects of community living.

Duties may include:

- Completing and maintaining client history and background forms
- Participating in the development and implementation of person directed plans
- Supporting individuals to develop and maintain relationships within the family and community
- Managing individual medication
- Developing and apply crisis intervention strategies
- 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
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- Completion of 3,720 hour apprenticeship program is required

Training Availability

Centennial College	Humber College
Algonquin College	Lambton College
Mohawk College	

Potential Earnings

- Apprentices progress towards a journeyperson's wages over time
- Wages¹ generally range from \$13.00 to \$28.65 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow about as fast as the average for all occupations through the year 2009²
- Most employment opportunities for this occupation are found in the service sector, primarily in non-institutional health services such as community mental health and addictions clinics
- Job opportunities may also be found in the private sector

Financial Incentives

- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Career Cruising

www.careercruising.ca

Ontario Job Futures

www.ontariojobfutures.ca

National Occupational Classification

www5.hrsdc.gc.ca/NOC/

Ontario Association on Developmental Disabilities

www.oadd.org

Ministry of Community and Social Services

www.mcass.gov.on.ca/mcss/english/topics/ds_apprenticeship.htm

¹ www.labourmarketinformation.ca

² www.labourmarketinformation.ca

Drywall, Acoustic and Lathing Applicator

Number of Hours: 5400 hours
Number of School Sessions: 2 x 10 weeks
Grade Requirement: Grade 10
Red Seal Trade

Trade Code 451A
NOC 7284
Construction Sector

Description

- Drywall installers and finishers perform some or all of the following duties:
- Measure, cut and fit drywall sheets for installation on walls and ceilings
- Position and secure sheets to metal or wooden studs or joists
- Cut and install metal corner beads to protect exterior corners
- Fill joints, nail indentations, holes and cracks with joint compound using trowel and broad knife
- Tape over joints using taping machine and embed tape in compound; apply successive coats of compound and sand seams and joints
- Fabricate and install suspended metal ceiling grids and place in panels to form acoustical and coffered ceilings
- Lathers perform some or all of the following duties:
- Prepare wall and ceiling layouts
- Install metal stud framing and furring for interior drywall or plaster walls and ceilings using hand and power tools
- Attach metal or gypsum lath to studs or furring using nails, screws, clips or ties
- Install corner beads and wire mesh around beams to which plaster is to be applied
- Install acoustic tile, hangers for suspended ceilings and metal studs for composition wallboard or lath

Personal Qualities

- You enjoy working to close and exacting tolerances
- You have the stamina to be on your feet for long periods of time
- Review Essential Skills profile for additional qualities required
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

- Journeypersons are employed by construction companies and by plastering, drywalling and lathing contractors and the work is done in residential, commercial or industrial buildings
- Many work on a piecework basis or may be self employed
- Work is performed by union and non-union workers

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 10; however most employers will require Grade 12
- Completion of a 5,400 hour apprenticeship program is required
- If you have completed 5,400 hours of on the job experience/training but have not completed the Apprenticeship Program you may be eligible to challenge the Certificate of Qualification

Training Availability

Interior Finishing Systems Training Centre
Woodbridge, ON
www.ifstc.com

Toronto School of Drywall
Mississauga, ON
www.torontoschoolofdrywall.com

Potential Earnings

- Apprentices progress initially from 40% to 80% of journeyperson's wages over time
- Wages range from \$16.96 to \$29.70 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Ratio for journeyperson/apprentice is 1:1 or 4:1
- Employment is expected to grow about as fast as the average for all occupations through the year 2014
- Work is subject to the cyclical nature of construction and is somewhat affected by seasonality (slows down slightly between September and February)

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Made With the Trades
www.madewiththetrades.com/exploretrades.php

Ontario Construction Secretariat
www.iciconstruction.com

Number of Hours: 5400 hours
Number of School Sessions: 480 hours
Grade Requirement: Grade 8

Trade Code 453A
NOC 7294
Construction Sector

Description

- Plasterers perform some of the following duties:
- Mix plaster ingredients to desired consistency; apply, level and smooth materials using trowels, floats, brushes and spraying equipment
- Finish corners and angles and create decorative designs in finish coat
- Mould and install ornamental plaster panels, cornices and trim
- Trowel or spray coats of stucco over exteriors of buildings to form weatherproof surfaces
- Spray acoustic materials or texture finish over walls and ceilings
- Drywall installers and finishers perform some or all of the following duties:
- Measure, cut and fit drywall sheets for installation on walls and ceilings
- Position and secure sheets to metal or wooden studs or joists
- Cut and install metal corner beads to protect exterior corners
- Fill joints, nail indentations, holes and cracks with joint compound using trowel and broad knife
- Tape over joints using taping machine and embed tape in compound; apply successive coats of compound and sand seams and joints
- Fabricate and install suspended metal ceiling grids and place in panels to form acoustical and coffered ceilings

Personal Qualities

- You enjoy working to close and exacting tolerances
- You have the stamina to be on your feet for long periods of time
- Review Essential Skills profile for additional qualities
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

- Journeypersons are employed by construction companies and by plastering, drywalling and lathing contractors and the work is done in residential, commercial or industrial buildings
- Many work on a piecework basis or may be self employed
- Work is performed by union and non-union workers

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 8 however; employers may require Grade 12
- Completion of a 5,400 hour apprenticeship program is required

Training Availability

Interior Finishing Systems Training Centre
Woodbridge, ON
www.ifstc.com

Toronto School of Drywall
Mississauga, ON
www.torontoschoolofdrywall.com

Potential Earnings

- Apprentices progress initially from 40% to 80% of journeyperson's wages over time
- Wages range from \$16.96 to \$29.70 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Ratio for journeyperson/apprentice is 1:1 or 4:1
- Employment is expected to grow about as fast as the average for all occupations through the year 2014¹
- Work is subject to the cyclical nature of construction and is somewhat affected by seasonality (slows down slightly between September and February)

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Made With the Trades
www.madewiththetrades.com/exploretrades.php

Ontario Construction Secretariat
www.iciconstruction.com

¹ www.careersinconstruction.ca/

Number of Hours: 5280 hours
Number of School Sessions: 720 hours
Grade Requirement: Grade 12

Trade Code 620C
NOC 4214
Service Sector

Description

- Create and implement a developmentally appropriate environment for children aged 0-12 years
- Establish and maintain a safe and enriching learning environment
- Treat all children equally and objectively with dignity and respect while recognizing diversity
- Work closely with children's families and community agencies
- Develop 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
- Work within a team of other 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
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

- Childcare centres, before and after school programs, nursery schools, kindergartens, community centres, for children with exceptionalities, hospitals, educational system, cruise lines, resorts
- Some ECEs have their own childcare businesses
- As an ECE, 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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- 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 E.C.E. Diploma.

Training Availability

Canadore College	Loyalist College
Fanshawe College	Georgian College
La Cité Collégiale	Mohawk College
Northern College	St. Clair College
Lambton College	Collège Boréal

Potential Earnings

- Apprentices may start at minimum wage or according to employer's wage scale, increasing towards a journeyperson's wage over time
- Wages¹ for a certified Early Childhood Educator range from \$10.15 to \$24.45 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow at about the average rate for all occupations through the year 2009²
- Employment opportunities are linked to spending on community and health resources
- Most early childhood educators work full time for a single employer in English and/or French child care centres

Financial Incentives

- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Association of Early Childhood Educators, Ontario
www.cfc.efc.ca/aeceo

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Number of Hours: 2268 hours
Number of School Sessions: 432 hours
Grade Requirement: Grade 12

Trade Code 620E
NOC 4214
Service Sector

Description

- Work with the educational team and the family to deliver program goals and maintain the flow of information
- Assist with the implementation of the education plan
- Communicate with resource personnel
- Maintain a communication log/record
- Present information verbally and in writing
- Apply 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
- Create a climate for learning by encouraging student's responsibility, modelling social skills
- Create optimal learning opportunities, promote peer acceptance and foster community relations
- Assist with life skills and living skills development
- Support the student and the use of specialized equipment
- Demonstrate safe work practices and techniques by maintaining a safe environment via safety inspections, emergency procedures, crisis intervention and physical restraint techniques
- Use proper lifting techniques and lifting devices
- Practice 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
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- 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

Training Availability

George Brown College	Collège Boréal
Confederation College	Sheridan College
Georgian College	Northern College

Potential Earnings

- Apprentices progress along their particular employer's wage scale
- Wages¹ range from \$18.25 to \$23.20 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow at less than the average rate for all occupations through the year 2009 as some school boards are laying off educational assistants²

Financial Incentives

- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Electrician – Construction and Maintenance

Number of Hours: 5 years at 1800 hours per year

Number of School Sessions: 1 x 8 weeks, 2 x 10 weeks

Grade Requirement: Grade 10

Compulsory Trade/Red Seal Trade

Trade Code 309A

NOC 7241

Construction Sector

Description

- Read and interpret 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
- Install, replace and repair lighting fixtures and electrical control and distribution equipment, such as switches, relays and circuit breaker panels
- Splice, join and connect wire to fixtures and components to form circuits
- Test continuity of circuits using test equipment to ensure compatibility and safety of system following installation, replacement or repair
- Troubleshoot and isolate faults in electrical and electronic systems and remove and replace faulty components
- Connect electrical power to sound and visual communication equipment, signaling devices and heating and cooling systems
- Conduct preventive maintenance programs and keep maintenance records

Personal Qualities

- You may be required to work in cramped areas or at considerable heights
- You may 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 skills www10.hrsdc.gc.ca/es/english/all_profiles.aspx

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

Educational/Training Requirements

- 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 challenge the Certificate of Qualification

Training Availability

Durham College	Algonquin College
La Cité Collégiale	Georgian College
Confederation College	Conestoga College

Fleming College
Humber College
St. Clair College
Fanshawe College
Sheridan College
Lambton College

Mohawk College
Northern College
St. Lawrence College
George Brown College
Northern College
Sault College

Potential Earnings

- Apprentices progress initially from 40% to 80% of journeyperson's wages over time
- Wages¹ range from \$14.00 to \$37.50 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Ratio for journeyperson/apprentice is 1:1 or 3:1
- Employment is expected to grow about as fast as the average for all occupations through the year 2014²
- Employment opportunities are linked to the economy and are somewhat cyclical

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

International Brotherhood of Electrical Workers
www.ibew894.org/

Electrical Contractors Association of Ontario
www.ecao.org/

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathways.pdf

Job Futures
www.jobfutures.ca

Made With the Trades
www.madewiththetrades.com/exploretrades.php

Ontario Construction Secretariat
www.iciconstruction.com

¹ www.labourmarketinformation.ca

² www.careersinconstruction.ca/

Electrician – Domestic and Rural

Number of Hours: 4 years at 1800 hours per year

Number of School Sessions: 1 x 8 weeks, 1 x 10 weeks

Grade Requirement: Grade 10

Compulsory Trade

Trade Code 309C

NOC 7241

Construction Sector

Description

- Read and interpret 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
- Install brackets and hangers to support electrical equipment
- Install, replace and repair lighting fixtures and electrical control and distribution equipment, such as switches, relays and circuit breaker panels
- Splice, join and connect wire to fixtures and components to form circuits
- Test continuity of circuits using test equipment to ensure compatibility and safety of system following installation, replacement or repair
- Troubleshoot and isolate faults in electrical and electronic systems and remove and replace faulty components
- Connect electrical power to sound and visual communication equipment, signaling devices and heating and cooling systems

Personal Qualities

- You may be required to work in cramped areas or at considerable heights
- You may have 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
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

- 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

Educational/Training Requirements

- 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 challenge the Certificate of Qualification

Training Availability

Durham College
Collège Boréal
Georgian College

International Brotherhood of Electrical Workers,
Local 353 Toronto, ON

www.ibew353.org

Potential Earnings

- Apprentices progress initially from 40% to 70% of journeyperson's wages over time
- Wages¹ range from \$13.00 to \$35.00 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Ratio for journeyperson/apprentice is 1:1 or 3:1
- Employment is expected to grow about as fast as the average for all occupations through the year 2014²
- Employment opportunities are linked to the economy and housing, and are somewhat cyclical

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

International Brotherhood of Electrical Workers
www.ibew.org

Electrical Contractors Association of Ontario
www.ecao.org/

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

Job Futures
www.jobfutures.ca/noc/7241.shtml

Made With the Trades
www.madewiththetrades.com/exploretrades.php

Ontario Construction Secretariat
www.iciconstruction.com

¹ www.labourmarketinformation.ca

² www.careersinconstruction.ca/

Number of Hours: 7280 hours
Number of School Sessions: 720 hours
Grade Requirement: Grade 12
Red Seal Trade

Trade Code 416E
NOC 2242
Service Sector

Description

- Demonstrate professional practices by communicating with customers, estimating cost for services and completing documentation
- Install, maintain and repair household and business electronic equipment, such as radios, televisions, biomedical equipment, two way radios, audio and video cassette recorders, stereo equipment, photocopiers, computers and peripherals, telephone answering equipment, microwave ovens, remote control equipment and devices, and antenna systems
- Inspect and test electronic equipment, components and assemblies using multi-meters, circuit testers, oscilloscopes, logic probes and other electronic test instruments, tools and equipment
- Diagnose and locate circuit, component and equipment faults
- Adjust, align, replace or repair electronic equipment, assemblies and components; follow equipment manuals and schematics; use soldering tools and other hand and power tools
- Complete work orders, test and maintenance reports
- Demonstrate product operation

Personal Qualities

- You may be required to work with tools inside small area
- You work inside all year round, usually in comfortable temperatures
- You work with diagnostic tools
- You must be a lifelong learner to keep up with technological change
- You like working with things
- You like troubleshooting and solving problems

Career Opportunities

- Electronic service technicians are employed by independent television and stereo repair shops, major department stores, electronic retail operations, manufacturers and manufacturers' repair facilities as well as authorized manufacturers' repair outlets
- Some electronic service technicians have their own business
- Electronic service technicians also work for the Canadian Armed Forces
- Demand is increasing because many manufacturing companies have converted to advanced technologies and the number of job openings exceeds the supply of skilled workers

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- 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 challenge the Certificate of Qualification

Training Availability

Trade Related Programs

Fleming College - Sutherland Campus
Peterborough, ON
www.flemingc.on.ca

Apprenticeship Training

Information not available at this time, contact
Employment Ontario at 905-837-7721 or 1-800-461-4608

Potential Earnings

- Apprentices progress along the company wage scale to journey person wages over time
- Wages¹ typically range from \$12.75 to \$27.50 an hour, excluding overtime, with journey persons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is good and expected to grow faster than the average for all occupations through the year 2009 due to an increased popularity of home entertainment centres and other electronic products in the home and the workplace²

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Job Futures
www.jobfutures.ca/noc/2242p3.shtml

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca/

Number of Hours: 7280 hours
Number of School Sessions: 3 x 8 weeks
Grade Requirement: Grade 12

Trade Code 636E
NOC 7318
Industrial Sector

Description

- Use a knowledge of various elevating devices including the electrical, hydraulic and mechanical systems involved
- Install, inspect, maintain and repair elevating devices including elevators, chair lifts, moving platforms, escalators and hoists
- May be required to service elevators ranging from those using primitive technology to those equipped with modern microprocessors
- May be required to respond to emergency situations after hours

Personal Qualities

- Very conscious of workplace safety
- Good computer skills
- Good analytical and problem solving skills
- Able to work at heights and in confined spaces
- Review Essential Skills profile for additional skills
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

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

Educational/Training Requirements

- Completion of Grade 12 is required; courses in English, Math 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

Training Availability

Durham College

Potential Earnings

- Apprentices may start at minimum wage, increasing towards a journey person's wage over time
- Wages range¹ from \$12.35 to \$28.20, excluding overtime, with journey persons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow at the average rate for all occupations through the year 2009

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

National Occupational Classification

www5.hrsdc.gc.ca/NOC/

Apprenticeship Subject Pathway

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

Delta Elevator Co. Ltd.

www.delta-elevator.com/company/company_info.html

Otis Canada, Inc.

www.otis.com

Technical Standards & Safety Authority

www.tssa.org

¹ www.labourmarketinformation.ca

Entertainment Industry Power Technician

Number of Hours: 4520 hours
Number of School Sessions: 480 hours
Grade Requirement: Grade 12

Trade Code 269E
NOC 5226
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
- Plan proposed film, television, live performance, tradeshow, special event and carnival layouts, installations and rigs from technical drawings, sketches and/or specifications
- 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
- 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
- Responsible for working on temporary installation up to, but not including, hardware 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

- Tradespersons in this trade 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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- 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 challenge the Certificate of Qualification

Training Availability

Trade Related Programs

Trebas Institute Toronto, ON
www.trebas.com

Harris Institute Toronto, ON
www.harrisinstitute.com

Fanshawe College London, ON
www.fanshawec.ca

Apprenticeship Training

Information not available at this time, contact Employment Ontario at 905-837-7721 or 1-800-461-4608

Potential Earnings

- Apprentices progress towards a journeyperson's wages over time
- Wages¹ generally range from \$12.60 to \$36.25 an hour; with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow about as fast as the average for all occupations through the year 2009²

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Apprenticesearch.com
www.apprenticesearch.com/fpTrades/EntertainmentPowerTech.asp

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

¹ www.labourmarketinformation.com

² www.ontariojobfutures.ca

Number of Hours: 5520 hours
Number of School Sessions: 2 x 8 weeks
Grade Requirement: Grade 12

Trade Code 255W
NOC 6663
Industrial Sector

Description

- Operate and maintain hand and power tools and equipment as well as lifting devices and material handling equipment
- Check and inspect fire safety equipment
- Inspect and maintain electrical systems, air conditioning systems, plumbing, water treatment systems, domestic appliances and laundry systems
- Inspect, maintain and troubleshoot heating equipment, ventilation systems and building (interior and exterior) envelope
- Perform ground maintenance

Personal Qualities

- You may be required to work in cramped areas or on ladders
- 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 like doing maintenance duties
- You are extremely safety conscious
- Review Essential Skills profile for additional qualities
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- 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 challenge the Certificate of Qualification

Training Availability

Durham College
Humber College

Potential Earnings

- Apprentices may start at minimum wage or according to company's wage scale, increasing towards a journeyperson's wage over time
- Wages range from \$10.30 to \$24.90 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow slower than the average for all occupations through the year 2009

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

Plant Engineering and Maintenance Association of Canada
www.pemac.org

Number of Hours: 7280 hours
Number of School Sessions: 3 x 8 weeks
Grade Requirement: Grade 12

Trade Code 255B
NOC 6663
Industrial Sector

Description

- Perform preventative maintenance
- Operate and maintain air conditioning and ventilation systems
- Operate, troubleshoot and maintain air compressors, chillers and refrigeration machines, pumps and pumping stations
- Operate, monitor and maintain water treatment systems
- Inspect and verify fire suppression and sprinkler systems
- Inspect, test and verify emergency power and lighting systems
- Operate, monitor and maintain heating systems and low pressure boilers
- Operate electrical systems
- Maintain fume hoods
- Operate and maintain control system instrumentation
- Inspect and monitor plumbing
- Monitor and analyze utility consumption

Personal Qualities

- You may be required to work in cramped areas or on ladders
- 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 like doing maintenance duties
- You are extremely safety conscious
- Review Essential Skills profile for additional qualities
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- 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 challenge the Certificate of Qualification

Training Availability

Durham College
Humber College

Potential Earnings

- Apprentices may start at minimum wage or according to company's wage scale, increasing towards a journeyperson's wage over time
- Wages range from \$10.30 to \$24.90 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow slower than the average for all occupations through the year 2009

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit.
- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction.

Additional Information

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

Plant Engineering and Maintenance Association of Canada
www.pemac.org

Number of Hours: 3844 to 7200 hours
Number of School Sessions: 3 x 8 weeks
Grade Requirement: Grade 10
Red Seal Trade

Trade Code 403A
NOC 7271
Construction Sector

Description

- General carpenters construct, erect, install, maintain and repair structures and components of structures made of wood, wood-substitutes and other materials
- Finish carpenters do detailed work requiring high level of skills
- Rough carpenters do framing and forming which require less skills
- Read and interpret blueprints, drawings and sketches to determine specifications and calculate requirements
- Prepare layouts in conformance to building codes, using measuring tools
- Measure, cut, shape, assemble and join materials
- Build foundations, install floor beams, lay sub flooring and erect walls and roof systems
- Fit and install trim items such as doors, stairs, moulding and hardware

Personal Qualities

- You may be required to work in cramped areas or at considerable heights
- You may work outside at various times of the year and experience a considerable range of environmental conditions
- You use your math skills in this trade
- You have the stamina to be on your feet for long periods of time
- You need to be in good physical condition to carry materials
- Review Essential Skills profile for additional qualities www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

- Journeypersons 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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 10 however, many employers require Grade 12
- Completion of a 3,844 to 7,200 hour apprenticeship program is required
- 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 challenge the Certificate of Qualification

Training Availability

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	

Potential Earnings

- Apprentices progress initially from 40% to 80% of journeyperson's wages over time
- Wages¹ range from \$14.00 to \$33.50 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Ratio for journeyperson/apprentice is 1:1 or 4:1
- Employment is expected to grow about as fast as the average for all occupations until the year 2013, with an increase in prospective employment in 2014²
- Employment opportunities are linked to the economy and housing, and are somewhat cyclical

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Carpenters' District Council of Ontario
www.carpentersdc.com

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Ontario Construction Secretariat
www.iciconstruction.com

¹ www.labourmarketinformation.ca

² www.careersinconstruction.ca/

Number of Hours: 7280 hours
Number of School Sessions: 3 x 8 weeks
Grade Requirement: Grade 12
Red Seal Trade

Trade Code 429A
NOC 7231
Industrial Sector

Description

- Read and interpret engineering drawings, blueprints, charts and tables or study sample parts to determine machining operation to be performed; plan best sequence of operations
- Compute dimensions and tolerances and measure and lay out work pieces
- Set up, operate and maintain 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
- Fit and assemble machined metal parts and subassemblies using hand and power tools
- Verify 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
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

- General machinists are typically employed in manufacturing plants

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- 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 challenge the Certificate of Qualification

Training Availability

Durham College	Algonquin College
Cambrian College	Conestoga College
Georgian College	Mohawk College
Niagara College	Sheridan College
St. Clair College	St. Lawrence College
Canadore College	Fanshawe College
Sault College	

Potential Earnings

- Apprentices start according to individual company rates and progress according to the company's wage scales over time
- Wages¹ range from \$13.00 to \$30.05 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Collegegrad.com - Machinists

www.collegegrad.com/careers/produ04.shtml

Job Futures

www.jobfutures.ca/noc/7231.shtml

Apprenticeship Subject Pathways

www.edu.gov.on.ca/end/training/apprenticeship/skills/pathwaye.pdf

¹ www.labourmarketinformation.ca

Number of Hours: 3020 hours
 Number of School Sessions: 2 x 8 weeks
 Grade Requirement: Grade 12
Compulsory Trade/Red Seal Trade

Trade Code 332A
 NOC 6271
 Service Sector

Description

- Consult with the client regarding hairstyle preferences that are compatible with their physical features
- Analyze hair and scalp condition and provide basic treatment or advice on beauty care treatments for scalp and hair
- Shampoo and rinse hair
- Cut, trim, taper and style hair
- Use permanent wave solutions
- Straighten or wave hair
- Apply bleach, tints, dyes or rinses to colour, frost or streak, lighten and tone hair
- Work 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 will be exposed to hair styling chemicals
- Review Essential Skills profile for additional qualities
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- 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

Training Availability

Durham College	Fanshawe College
Algonquin College	Niagara College
Georgian College	St. Clair College
La Cité Collégiale	St. Lawrence College
Lambton College	Sault College
Collège Boréal	

Potential Earnings

- Apprentices may start at minimum wage or progress along a specific shop's scale, increasing towards a journeyperson's wages over time
- Wages¹ typically range from \$8.75 to \$20.50 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is good and is expected to grow more rapidly than the average for all occupations through the year 2009²

Financial Incentives

- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathway.pdf

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Hardware, Lumber and Building Materials Retailer

Number of Hours: 4212 hours
Number of School Sessions: 288 hours
Grade Requirement: Grade 12

Trade Code 606W
NOC 6421
Service Sector

Description

- Greet customers and discuss the type, quality and quantity of merchandise or services sought for purchase, rental or lease
- Develop an understanding of hardware, lumber and building materials so that you are able to advise customers on use and care of products and provide advice
- Be able to estimate or quote prices, credit terms, trade in allowances, warranties and delivery dates
- Prepare merchandise for purchase, rental or lease in addition to pick up and delivery
- Be able to assist in the display of merchandise
- Maintain sales records for inventory control

Personal Qualities

- You enjoy working with people and are able to demonstrate good customer service skills
- You are physically able to be on your feet for long periods of time
- You enjoy working both indoors and outdoors
- You are physically able to lift and kneel
- You are cooperative
- Review Essential Skills profile for additional qualities www10.hrsdc.gc.ca/es/47english/all_profiles.aspx

Career Opportunities

- Hardware, Lumber and Building Materials Retailers are usually employed at hardware, lumber and building materials stores

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- Completion of a 4,212 hour apprenticeship program is required

Training Availability

Information not available at this time, contact
Employment Ontario at 905-837-7721 or 1-800-461-4608

Potential Earnings

- Apprentices may start at minimum wage or progress along a specific shop's scale, increasing towards a journeyperson's wages over time
- Wages¹ range from \$8.75 to \$20.05 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment for this occupation is expected to grow at a faster rate than the average for all occupations through 2009²

Additional Information

Retail Council of Canada
www.retailcouncil.org/

National Occupational Classification
<http://www5.hrsdc.gc.ca/NOC/>

Ontario Job Futures
www.ontariojobfutures.ca

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Heavy Equipment Operator

Number of Hours: 2260 hours
Number of School Sessions: 240 hours
Grade Requirement: Grade 12

Dozer Trade Code 636C
Excavator Trade Code 636B
Tractor Loader Backhoe Trade Code 636A
NOC 7421
Construction Sector

Description

- Use a variety of mobile machines and attachments such as backhoes, bulldozers, front-end loaders, graders, pavers and excavators
- Dig trenches, haul, load or dump heavy materials, clear and level land, break rock or concrete, pave roads and parking lots
- May operate unique equipment such as skidders or trench excavators in particular industries such as forestry or construction
- Perform routine preventive maintenance and general servicing of equipment
- Work all seasons out of doors
- Transport equipment to work site and load/unload equipment on transporter
- May install and remove attachments to equipment as the work requires

Personal Qualities

- Work well as part of a team and follow hand signals
- Very safety conscious
- Good eye, hand/foot coordination, fast reflexes
- Good manual dexterity and visual acuity
- Be willing to travel
- Be patient and able to sit for long periods
- Good communication, analytical and problem solving skills
- Review Essential Skills profile for additional qualities
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- Completion of a 2,260 hour apprenticeship program is required
- May require specific license(s) to drive transporter vehicle

Training Availability

Conestoga College

Operating Engineers Training Institute of Ontario
Morrisburg, ON
www.oetio.com

Potential Earnings

- Wages¹ range between \$14.00 to \$35.00 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- The employment growth rate will likely be balanced due to the anticipated economic recovery which should encourage transportation/construction projects, particularly residential construction²
- The retirement rate will likely be about average, and the number of retiring workers should contribute to job openings

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Job Futures

www.jobfutures.ca

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

¹ www.careersinconstruction.ca/

² www.careersinconstruction.ca/

Hoisting Engineer: Mobile Crane Operator, Br. 1

Number of Hours: 3 years at 2000 hours per year

Number of School Sessions: 480 hours

Grade Requirement: Grade 10

Compulsory Trade/Red Seal Trade

Trade Code 339A

NOC 7371

Construction Sector

Description

A hoisting engineer, also referred to as a Mobile Crane Operator (Branch 1), 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. Duties include:

- Understanding and practicing safety precautions to protect yourself and others
- Being able to conduct pre-operational inspections and prepare and transport cranes
- Planning lifts
- Being able to assemble and dismantle cranes
- Performing rigging and setting up the cranes
- Operating hydraulic cranes and conventional friction cranes
- Performing regular maintenance on cranes

Personal Qualities

- You will be required 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 skills
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

- 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

Educational/Training Requirements

- 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 challenge the Certificate of Qualification
- Refer to www.oetio.com for up-to-date information on the training requirements

Training Availability

Durham College

Operating Engineers Training Institute of Ontario
Morrisburg ON

www.oetio.com

Potential Earnings

- Apprentices progress initially from 40% to 80% of a journeyperson's wages over time
- Mobile crane operators earn more while operating the crane than while driving to the site
- Wages¹ range from \$11.55 to over \$32.00 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Ratio journeyperson/apprentice is 1:1
- Employment is expected to grow about as fast as the average for all occupations through the year 2009²
- Employment opportunities are subject to annual peaks and valleys and are affected by the economy

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

International Union of Operating Engineers, Local 793
www.iuoelocal793.org

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathways.pdf

Made with the Trades

www.madewiththetrades.com

Ontario Construction Secretariat
www.iciconstruction.com

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Hoisting Engineer: Mobile Crane Operator, Br. 2

Number of Hours: 1000 hours
Number of School Sessions: 240 hours
Grade Requirement: Grade 10
Compulsory Trade

Trade Code 339C
NOC 7371
Construction Sector

Description

A hoisting engineer, also referred to as a Mobile Crane Operator (Branch 2), is a person who 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. Duties include:

- Understanding and practicing safety precautions to protect yourself and others
- Being able to conduct pre-operational inspections, prepare and transport cranes
- Planning lifts and performing rigging
- Setting up, operating and maintaining cranes

Personal Qualities

- You will be required 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 skills
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

- 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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 10; however, many employers require Grade 12
- Completion of a 1,000 hour apprenticeship program is Required

Training Availability

Durham College

Operating Engineers Training Institute of Ontario
Morrisburg ON
www.oetio.com

Potential Earnings

- Apprentices will progress towards the journeyperson's wages over time
- Mobile crane operators earn more while operating the crane than while driving to the site
- Wages¹ range from \$11.55 to over \$32.00 an hour, excluding overtime, with journeypersons earning the higher end of the pay scale

Prospects For Employment

- Ratio journeyperson/apprentice is 1:1
- Employment is expected to grow about as fast as the average for all occupations through the year 2009²
- Employment opportunities are subject to annual peaks and valleys and are affected by the economy

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

International Union of Operating Engineers, Local 793
www.iuolocal793.org

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

Made with the Trades

www.madewiththetrades.com

Ontario Construction Secretariat

www.iciconstruction.com

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Hoisting Engineer: Tower Crane Operator, Br. 3

Number of Hours: 2 years at 1500 hours per year

Number of School Sessions: 360 hours

Grade Requirement: Grade 10

Compulsory Trade

Trade Code 339B

NOC 7371

Construction Sector

Description

'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. Duties of the operator include:

- Understanding and practicing safety precautions to protect yourself and others
- Conducting pre-operational inspections
- Responsible for planning lifts, performing rigging and maintaining cranes
- Operating hammerhead cranes and luffer cranes
- Be able to climb cranes (internal)

Personal Qualities

- You will be required 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 www10.hrsdc.gc.ca/es/english/all_profiles.aspx
- Adaptable to use robotics, computerized and electronic controls instead of mechanical operations

Career Opportunities

- 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

Educational/Training Requirements

- 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 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 challenge the Certificate of Qualification

Training Availability

Operating Engineers Training Institute of Ontario
Morrisburg, ON

www.oetio.com

Potential Earnings

- Apprentices progress initially from 40% to 70% of the journeyperson wages over time
- Mobile crane operators earn more while operating the crane than while driving to the site
- Wages¹ range from \$11.55 to over \$32.00 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Ratio for journeyperson/apprentice is 1:1
- Employment is expected to grow about as fast as the average for all occupations through the year 2009²
- Employment opportunities are subject to annual peaks and valleys and are affected by the economy

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

International Union of Operating Engineers, Local 793

www.iuolocal793.org

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

Made with the Trades

www.madewiththetrades.com

Ontario Construction Secretariat

www.iciconstruction.com

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Number of Hours: 5400 hours
Number of School Sessions: 2 x 12 weeks
Grade Requirement: Grade 12
Red Seal Trade

Trade Code 441C
NOC 2225
Service Sector

Description

- Work as part of a team in a safe and efficient manner
- Plan job in an effective manner to ensure optimum job efficiency and effectiveness
- Identify plants, pests and materials
- Remove and prepare plants and materials for shipping
- Propagate, produce, cultivate, fertilize, install, maintain and irrigate plants and turf grasses
- Use and operate tools and equipment used in horticulture
- Interpret and implement landscape drawings
- Install natural stone, pre-cast stone, concrete and wood for landscaping
- Inspect woody plants to identify deficiencies/damage and to determine required method of pruning; perform various types of pruning cuts to correct deficiencies and/or obtain desired results
- Inspect woody plants for damage and determine method of repair to ensure healthy plants
- Identify signs and symptoms of major pest types, comply with relevant legislation, use biological and chemical pest controls, perform various methods of application and calibrate application equipment
- Inspect, handle, and transport nursery stock

Personal Qualities

- You like working with plants, bushes, trees and soil
- You like to work outdoors and indoors
- 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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- 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 challenge the Certificate of Qualification

Training Availability

Humber College
Fleming College
Kemptville College
Lambton College

Potential Earnings

- Apprentices may start at minimum wage or according to individual company rates, increasing towards a journeyperson's wage over time
- Wages¹ range from \$12.50 to \$24.50 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow at a slightly slower rate than the average for all occupations through the year
- Employment opportunities may be seasonal depending on the employer's work, with many hours in the peak seasons

Financial Incentives

- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Landscape Ontario
www.horttrades.com/prodev/

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

¹ www.labourmarketinformation.ca

Number of Hours: 8160 hours
Number of School Sessions: 8 weeks, 2 x 10 weeks
Grade Requirement: Grade 12
Red Seal Trade

Trade Code 442A
NOC 7242
Industrial Sector

Description

- Read and interpret drawings, blueprints, schematics and electrical code specifications to determine layout of industrial electrical equipment installations
- Install, examine, replace or repair electrical wiring, receptacles, switch boxes, conduits, feeders, fibre-optic and coaxial cable assemblies, lighting fixtures and other electrical components
- Test electrical and electronic equipment and components for continuity, current, voltage and resistance
- Maintain, repair, install and test switchgear, transformers, switchboard meters, regulators and reactors
- Maintain, repair, test and install electrical motors, generators, alternators, industrial storage batteries and hydraulic and pneumatic electrical control systems
- Troubleshoot, maintain and repair industrial, electrical and electronic control systems and other related devices
- Conduct preventive maintenance programs and keep maintenance records
- May install, maintain and calibrate industrial instrumentation and related devices

Personal Qualities

- You may be required 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
www10.hrsdc.gc.ca/es/53english/all_profiles.aspx

Career Opportunities

- Small, medium and large industrial companies employ industrial electricians on a full time basis

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- Completion of a 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 challenge the Certificate of Qualification

Training Availability

Conestoga College	St. Clair College
Confederation College	Sheridan College
Durham College	Sault College
Fanshawe College	Mohawk College
Humber College	St. Lawrence College

Potential Earnings

- Apprentices progress along the company wage scale to journey person wages over time; many industrial plants are unionized and pay is according to a specific collective agreement
- Wages¹ range from \$18.60 to \$39.75 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow about as fast as the average for all occupations through the year 2009²
- Employment opportunities are linked to the industrial portion of the economy

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant.
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Joint Apprenticeship Council IBEW-ECAT Local 353
www.electricalapprenticeship.ca/home.html

Electrical Contractors Association of Ontario
www.ecao.org/

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

Job Futures
www.jobfutures.ca/noc/7242.shtml

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Number of Hours: 7280 hours
Number of School Sessions: 3 x 8 weeks
Grade Requirement: Grade 12
Red Seal Trade

Trade Code 433A
NOC 7311
Industrial Sector

Description

- Install, repair and maintain industrial plant machinery and equipment
- Read blueprints, diagrams and schematic drawings to determine work procedures
- Dismantle and move stationary industrial machinery and mechanical equipment such as pumps, fans, tanks, conveyors, furnaces and generators according to plans, using hand and power tools
- Operate hoisting and lifting devices such as cranes, jacks and tractors to position machinery and parts during the installation, set-up and repair of machinery
- Inspect and examine machinery and equipment to detect and investigate irregularities and malfunctions
- Install, troubleshoot and maintain power transmission, vacuum, hydraulic and pneumatic systems, and programmable logic controls
- Adjust machinery and repair or replace defective parts
- Operate machine tools such as lathes and grinders to fabricate parts required during overhaul, maintenance or set-up of machinery
- Clean, lubricate and perform other routine maintenance work on machinery
- Use hand and power tools and welding equipment

Personal Qualities

- You 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 millwright are employed in manufacturing plants, utilities and other industrial establishments

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- 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 challenge the Certificate of Qualification

Training Availability

Durham College	Mohawk College
Fleming College	St. Clair College
Conestoga College	Fanshawe College
Confederation College	George Brown College
Collège Boréal	Georgian College
La Cité Collégiale	St. Lawrence College
Sheridan College	

Potential Earnings

- Apprentices start according to individual company rates and progress according to the company's wage scales over time
- Wages range¹ from \$19.60 to \$37.30 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow about as fast as the average for all occupations through the year 2009²
- Most tradespersons work full time for a single employer

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Job Futures

www.jobfutures.ca/noc/7311.shtml

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

National Occupational Classification

www5.hrsdc.gc.ca/NOC/

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Information Technology Contact Centre – Customer Care Agent

Number of Hours: 3730 hours
Number of School Sessions: 270 hours (9 weeks)
Grade Requirement: Grade 12

Trade Code 634E
NOC 2282
Service Sector

Description

- Communicate accurately and effectively with clients, co-workers and supervisors
- Demonstrate quality customer service skills
- Responsible for creating and maintaining required documentation
- Demonstrates a thorough knowledge of computer components and PC technology
- Applies quality customer service skills
- Handles pre-sales and post-sales services
- Has effective negotiating skills
- Supports sales organization through customer care activities
- Acts as a liaison between clients and manufacturing, sales, support and financial services
- Establishes and maintains quality client service skills

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 analysts 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 analysts have their own business

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- Completion of a 3,730 hour apprenticeship is required

Training Availability

St. Clair College
Northern College
Sault College

Potential Earnings

- Apprentices are paid according to the company's wage scale
- Wages¹ typically range from \$12.50 to \$29.60 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow about as fast as the average for all occupations through the year 2009²

Financial Incentives

- Employers who employ first, second and third year apprentices in this trade can apply for the Apprenticeship Training Tax Credit
- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Information Technology Contact Centre – Inside Sales Agent

Number of Hours: 3730 hours
Number of School Sessions: 270 hours (9 weeks)
Grade Requirement: Grade 12

Trade Code 634D
NOC 2282
Service Sector

Description

- Maintain a functional contact centre sales environment
- Communicate accurately and effectively
- Demonstrate quality customer service skills
- Apply sales techniques
- Create and maintain required documentation
- Setup and configure microcomputer system and components
- Demonstrate strong teamwork skills
- Actively apply coaching and mentoring skills

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 analysts 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 analysts have their own business

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- Completion of a 3,730 hour apprenticeship is required

Training Availability

St. Clair College
Sault College

Potential Earnings

- Apprentices are paid according to the company's wage scale
- Wages¹ typically range from \$12.50 to \$29.60 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow about as fast as the average for all occupations through the year 2009²

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit

Additional Information

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathways.pdf

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Information Technology Contact Centre – Technical Support Agent

Number of Hours: 3400 hours
Number of School Sessions: 600 hours (20 weeks)
Grade Requirement: Grade 12

Trade Code 634A
NOC 2282
Service Sector

Description

- Communicates effectively with clients, co-workers and others
- Demonstrates quality customer service skills
- Creates and maintains required documentation
- Demonstrates a thorough knowledge of computer components and PC technology
- Demonstrates strong coaching and mentoring skills
- Provides support to his/her clients in their use of software applications
- Supports and directs clients through their installation of hardware, software and networking components
- Uses effective problem-solving strategies
- Implements logical troubleshooting techniques

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 analysts 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 analysts have their own business

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- Completion of a 3,400 hour apprenticeship is required

Training Availability

Canadore College
St. Clair College
Boréal Collège
Sault College

Potential Earnings

- Apprentices are paid according to the company's wage scale
- Wages¹ typically range from \$12.50 to \$29.60 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale.

Prospects For Employment

- Employment is expected to grow about as fast as the average for all occupations through the year 2009²

Financial Incentives

- Employers who employ first, second and third year apprentices in this trade can apply for the Apprenticeship Training Tax Credit
- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Information Technology Hardware Technician

Number of Hours: 6420 hours
Number of School Sessions: 12 weeks, 9 weeks
Grade Requirement: Grade 12

Trade Code 634B
NOC 2282
Service Sector

Description

- Supports client use of computer applications and operating systems software
- Responsible for the installation of network components, hardware and software
- Troubleshoot information systems
- Assemble microcomputer systems from components
- Responsible for troubleshooting and repairing microcomputer hardware
- Configuring, optimizing and upgrading components and peripherals in microcomputer systems
- Create and maintain required documentation
- Train new users
- Research problems and investigate 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 analysts 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 analysts have their own business

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- Completion of a 6,420 hour apprenticeship is required

Training Availability

Canadore College

Potential Earnings

- Apprentices are paid according to the company's wage scale
- Wages¹ typically range from \$12.50 to \$29.60 an hour, excluding overtime, with journeypersons usually earning the higher end of the wage scale

Prospects For Employment

- Employment is expected to grow about as fast as the average for all occupations through the year 2009²

Financial Incentives

- Employers who employ first, second and third year apprentices in this trade can apply for the Apprenticeship Training Tax Credit
- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

¹ www.labourmarketinformation.ca

² www.careermatters.org

Information Technology Network Technician

Number of Hours: 6340 hours
Number of School Sessions: 2 x 12 weeks
Grade Requirement: Grade 12

Trade Code 634C
NOC 2282
Service Sector

Description

- Install, configure and maintain client workstations and network servers connected by a local area network
- Troubleshoot network errors
- Implement network security
- Apply technical knowledge of data communications, standards, protocols and Internetworking concepts
- Create and maintain network documentation
- Requests and evaluates vendor proposals for network solutions
- Troubleshooting 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 analysts 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 analysts have their own business

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- Completion of a 6,340 hour apprenticeship is required

Training Availability

Canadore College

Potential Earnings

- Apprentices are paid according to the company's wage scale
- Wages¹ typically range from \$12.50 to \$29.60 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow about as fast as the average for all occupations through the year 2009²

Financial Incentives

- Employers who employ first, second and third year apprentices in this trade can apply for the Apprenticeship Training Tax Credit
- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Number of Hours: 8000 hours
Number of School Sessions: 3 x 8 weeks
Grade Requirement: Grade 10
Red Seal Trade

Trade Code 420B
NOC 7264
Construction Sector

Description

- Ironworkers fabricate, erect, hoist, install, repair and service the following: structural ironwork, concrete reinforcing materials, curtain walls, ornamental iron and other metals used in the construction of buildings, bridges, highways, dams and other structures and equipment.
- Read blueprints and specifications
- Examine structures and equipment for deterioration, defects or non-compliance with specifications

Personal Qualities

- You will be required 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 skills required
http://www.hrsdc.gc.ca/eng/workplaceskills/essential_skills/general/home.shtml

Career Opportunities

- Ironworkers usually work full-time, often outdoors in all kinds of weather, and at great heights. The working environment tends to be fast-paced, and ironworkers are sometimes required to travel from one project to another.
- Ironworkers tend to work for Heavy Construction firms, metal fabricating business and commercial construction builders

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 10
- Completion of a 8000 hour apprenticeship program is required
- If you have completed 8000 hours of on the job experience / training but you have not completed the Apprenticeship program you may be eligible to challenge the Certificate of Qualification

Training Availability

Sault College

Potential Earnings

- Apprentices earn less than a Journeyman, but as their skills improve their wage increases
- Wages range from \$20.00 to \$34.75 an hour, excluding overtime, with journeymen usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow at an average rate in this industry

Financial Incentives

- Employers who employ first, second and third year apprentices in this trade can apply for the Apprenticeship Training Tax Credit
- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathways.pdf

National Occupational Classification

www5.hrsdc.gc.ca/NOC

Ironworker- Structural and Ornamental Br. 2

Number of Hours: 3 years at 2000 per year
Number of School Sessions: 3 x 8 weeks
Grade Requirement: Grade 10
Red Seal Trade

Trade Code 420A
NOC 7264
Construction Sector

Description

- Read blueprints and specifications to lay out work
- Unload and position steel units so each piece can be hoisted as needed
- Erect and install scaffolding, hoisting equipment and rigging
- Align and weld or bolt steel units in place
- Erect structural and architectural pre-cast concrete components for buildings, bridges, towers and other structures
- Assemble and erect prefabricated metal structures
- Position and secure steel bars or metal mesh in concrete forms to reinforce concrete structure
- Install ornamental and other structural metalwork such as curtain walls, metal stairways, railings and power doors

Personal Qualities

- You will be required 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 skills
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

- 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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 10; however, most employers will require Grade 12 with courses in Mathematics
- 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 challenge the Certificate of Qualification

Training Availability

Sault College

Ironworkers Local 721 Training and Rehabilitation Centre
Toronto, ON
www.iw721.org

Potential Earnings

- Apprentices progress initially from 60% to 90% of journeyperson's wages over time
- Wages¹ range from \$26.00 to \$35.00 an hour, excluding overtime, with journeypersons earning the higher end of the pay scale

Prospects For Employment

- Ratio for journeyperson/apprentice is 1:1 and 2:1
- Employment is expected to grow about as fast as the average for all occupations through 2014²
- Employment opportunities are subject to annual peaks and valleys and are affected by the economy

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

Made With the Trades
www.madewiththetrades.com/exploretrades.php

Ontario Construction Secretariat
www.iciconstruction.com

¹ www.labourmarketinformation.ca

² www.careersinconstruction.ca/

Number of Hours: 6000 hours
Number of School Sessions: 480 hours
Grade Requirement: Grade 12

Trade Code 259L
NOC 7383
Industrial Sector

Description

- Cutting and making keys, customer service
- Repair, install, adjust locks and change lock combinations
- Work on residential, automotive, commercial and institutional locksets
- Use of a variety of hand tools including metal saws, soldering equipment and files
- Advise clients of different locking systems equipment as well as instructing customers on the use of electronic security systems
- Use special tools to figure out combinations or to drill into bank safes or vaults if they are damaged or if the combination is lost

Personal Qualities

- You may be required to work alone in a position of trust to get the job done
- You have the stamina to be on your feet for long periods of time, lift, bend, and kneel in confined spaces
- Review Essential Skills profile for additional qualities
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

- Many locksmiths are hired by customers in the following industries: car dealerships, emergency rescue companies, retail shops and hardware stores, exterior constructions firms, and security firms

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- Completion of a 6,000 hour apprenticeship program is required

Training Availability

The Academy of Locksmithing
Scarborough, ON
www.taol.net

Potential Earnings

- Apprentices make less than a Journeyperson, but as their skills and expertise progress, their wage increase
- Wages range from \$18.00 to \$22.00 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Keeping up with technology is important in this trade as it is more common for electronic and computerized locks. Therefore, in order to remain competitive in the industry upgrading may be required

Financial Incentives

- Employers who employ first, second and third year apprentices in this trade can apply for the Apprenticeship Training Tax Credit
- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

National Occupational Classification
www5.hrsdc.gc.ca/NOC

Machine Tool Builder and Integrator

Number of Hours: 7280 hours
Number of School Sessions: 3 x 8 weeks
Grade Requirement: Grade 12

Trade Code 430M
NOC 7316
Industrial Sector

Description

- Read and interpret complex engineering drawings, schematics, bill of materials, machine-tool build assembly drawings
- Use lathes, mills, saws, drills, grinders and welding equipment to build and prepare tooling
- Perform Numerically Controlled (NC) and Computerized Numerical Control (CNC) machining
- Devise and detail assembly plans for the machine-tool build and integrator process
- Assemble and integrate pneumatics and hydraulics, electrical components, power transmission systems, conveyor systems, and feeder systems
- Sub-assemble machine tool components
- Integrate main-assembly
- Build 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 for additional skills required www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

- Machine-tool builder and integrators are employed primarily in manufacturing industries

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- 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 challenge the Certificate of Qualification

Training Availability

Conestoga College
St. Clair College
Sheridan College

Potential Earnings

- Apprentices start according to individual company rates and progress according to the company's wage scales over time
- Wages¹ range from \$13.20 to \$28.75 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow at a rate slower than the average for all occupations through the year 2009²
- Most tradespersons work full time for a single employer

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathways.pdf

National Occupational Classification

www5.hrsdc.gc.ca/NOC/

¹ www.labourmarketinformation.ca

² www.careermatters.org

Number of Hours: 4280 hours
Number of School Sessions: 3 x 8 weeks
Grade Requirement: Grade 12

Trade Code 435B
NOC 7335
Manufacturing Sector

Description

- Review work orders and discuss work to be performed with supervisor
- Perform scheduled maintenance service on equipment
- Determine estimates of repair cost
- Operate boats and boat handling equipment
- Maintain and repair engines and engine components
- Install engines and components including electrical and hydraulic systems
- Maintain and repair drive systems
- Install, maintain and repair boat systems and accessories
- Test and adjust repaired equipment for proper performance
- Advise customers on work performed and general condition of equipment

Personal Qualities

- You like working around marine engines and boats
- You will 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 will make a significant investment in tools
- You like working with computerized equipment

Career Opportunities

- Marine engine mechanics are employed by engine manufacturers, marine brokers, marinas, yacht clubs and marine service providers

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- Completion of a 4,280 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 challenge the Certificate of Qualification

Training Availability

Georgian College
Sault College
Canadore College

Potential Earnings

- Apprentices may start at minimum wage or according to individual company rates and increase towards a journeypersons wage over time
- Wages¹ range from \$10.28 to \$20.84 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- The recreational boating industry is experiencing a serious shortage of skilled trades people²
- Work in this trade is often of a seasonal nature, many tradespersons work for a company that is also involved in the winter recreational vehicle business

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Job Futures
www.jobfutures.ca/noc/733.shtml

Ontario Marine Operators Association
www.careersinboating.com
www.marinasontario.com

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

¹ www.labourmarketinformation.ca

² www.careersinboating.com

Number of Hours: 4680 hours
Number of School Sessions: 10 weeks, 2x 7 weeks
Grade requirement: Grade 12
Red Seal Trade

Trade Code 437A
NOC 7263
Industrial Sector

Description

- Interprets drawings and 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
- In this trade you would be fitting assembling and installing steel or metal components for: buildings, bridges, tanks, towers, boilers and pressure vessels
- Set up and operate various heavy-duty metalworking machines

Personal Qualities

- In this trade you may be exposed to high levels of noise, smell and dirt
- It may require you to work shifts, but a typical work week is 40 hours
- The work in this field can be both indoors and outdoors
- Physical strength and stamina
- Mechanical aptitude
- Good co-ordination and manual dexterity
- Review Essential Skills profile for additional qualities
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- 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 challenge the Certificate of Qualification

Training Availability

Conestoga College	Cambrian College
Durham College	Niagara College
Northern College	

Potential Earnings

- Apprentices earn less than a Journey person, but as their skills improve their wage increases
- Wages range from \$14.00 to \$20.00 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow at an average rate in this industry

Financial Incentives

- Employers who employ first, second and third year apprentices in this trade can apply for the Apprenticeship Training Tax Credit
- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

National Occupational Classification

www5.hrsdc.gc.ca/NOC

Number of Hours: 4000 hours
Number of School Sessions: 304 hours
Grade Requirement: Grade 12

Trade Code 630A
NOC 9483
Service Sector

Description

- Assemble and fabricate electronic equipment, parts and components
- Set up, operate, monitor and problem solve problems with automated processes
- run and adjust automated machinery
- Follow clean-room instructions
- Interpret drawings, blueprints and diagrams
- Operate robotics and automation equipment
- Solder and manually assemble various electronic components as resistors, diodes, transistors, capacitors, integrated circuits, switches, wires and other electronic parts to designated locations on printed circuit boards
- Assemble microcircuits requiring fine hand assembly and the use of microscopes
- Install, mount, fasten, align and adjust parts, components, wiring and harnesses to subassemblies and assemblies using hand and small power tools
- Operate automatic and semi-automatic machines to position, solder and clean prescribed components on printed circuit boards
- May replace defective components and repair and overhaul older devices
- Able to display and present finished products in packaging and/or display cases

Personal Qualities

- You are willing to work indoors, performing repetitive tasks
- You have strong analytical problem solving skills
- You have good fine motor skills and manual dexterity
- You like to work with your hands
- You are physically fit and able to stand for long periods of time, operating machinery
- You can work independently
- You can read and interpret blueprints and diagrams

Career Opportunities

Employers who hire Microelectronic Manufacturers include high technology firms, electronics manufacturing plants, electrical and electronic machinery wholesalers, business machine manufacturers and motor vehicle parts manufacturers

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- Completion of a 4,000 apprenticeship program is required

Training Availability

Algonquin College

Potential Earnings

- Apprentices may start at minimum wage, increasing towards a journeyperson's wage over time
- Wages range from \$10.98 to \$14.07 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale
- Some Microelectronics Manufacturers may earn considerably more depending on experience, their place of employment and areas of expertise

Prospects For Employment

- Employment is expected to grow more rapidly than the average as increasing consumer demand for computers and other equipment is met by manufacturing companies
- In the production process, the introduction of new technologies will put a premium on those workers with good computer literacy skills to work with the new equipment

Financial Incentives

- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant.
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

Ontario Job Futures

www.ontariojobfutures.ca

Number of Hours: 5550 hours
Number of School Sessions: 2 x 8 weeks
Grade Requirement: Grade 12
Compulsory Trade/Red Seal Trade

Trade Code 310G
NOC 7334
Manufacturing Sector

Description

- Review work orders and discuss work to be performed with supervisor
- Inspect and test engine using test devices to diagnose and isolate faults
- Determine estimates of repair cost
- Diagnose and repair 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
- Test and adjust repaired systems for proper performance
- Perform scheduled maintenance service on equipment
- Advise customers on work performed and general condition of motorcycle

Personal Qualities

- You like working with computerized equipment
- You like working with your hands and do not mind getting them dirty
- You will work indoors and sometimes outside with noises, grease and oil
- 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 are not bothered by standing on concrete all day
- You like to learn new things on a consistent basis
- You will 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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- Completion of a 5,550 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 challenge the Certificate of Qualification

Training Availability

Centennial College

Potential Earnings

- Apprentices start according to individual company rates and progress along the company's wage scale over time
- Wages¹ range from \$13.08 to \$29.13 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow about as fast as the average for all occupations through the year 2009²
- Work in this trade is often of a seasonal nature; to have year round work, many motorcycle mechanics work for a company that is also involved in the winter recreational vehicle business

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Job Futures
www.jobfutures.ca/noc/733.shtml

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

¹ www.labourmarketinformation.ca

² www.careermatters.org

Number of Hours: 7280 hours
Number of School Sessions: 3 x 8 weeks
Grade Requirement: Grade 12

Trade Code 431A
NOC 7232
Industrial Sector

Description

- Read and interpret complex engineering drawings, pattern drawings, and work process documentation
- Design, make, and repair moulds and models used to mass produce plastic or metal components or products
- Build precision mould components using metal-cutting machines and equipment including saws, drills, grinders, lathes, mills, and electrical discharge machines (EDMs)
- Perform work in-process measuring and checking using specialized and precision tools and equipment

Personal Qualities

- You 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 enjoy working with your hands
- You enjoy using computerized equipment
- Review Essential Skills profile for additional skills
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- 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 challenge the Certificate of Qualification

Training Availability

Conestoga College	St. Clair College
Fanshawe College	Sheridan College
Georgian College	
Sheridan College	

Potential Earnings

- Apprentices start according to individual company rates and progress according to the company's wage scales over time
- Wages¹ range from \$16.65 to \$29.00 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- The employment growth rate will likely be average

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Job Futures

www.jobfutures.ca/noc/7232.shtml

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

National Occupational Classification

www5.hrsdc.gc.ca/NOC/

¹ www.labourmarketinformation.ca

Native Clothing and Crafts Artisan

Number of Hours: 3520 hours
Number of School Sessions: 480 hours
Grade Requirement: Grade 12

Trade Code 296B
NOC 7342
Service Sector

Description

- Design and make tailored clothes and associated leather crafts reflecting traditional themes
- Are familiar with Mukluk/Moccasin making, Quill Work Art, Moose/Caribou Hair Tuffing and Sculpturing, Fishscale Art, Birch Bark Baskets and North American Bead Work
- Use manual and artistic skills to design and produce ornamental or practical crafts including: pottery, jewellery, rugs, blankets and other handicrafts
- Creating traditional musical instruments including stringed and percussion (drum) instruments
- Use hand tools
- Use sewing machines
- Work with a variety of fabrics and craft materials

Personal Qualities

- You enjoy making and/or creating things
- You enjoy working with hand tools and specialized equipment like sewing machines and sergers
- You are able to keep deadlines for completing projects
- You have good written and verbal communication skills
- You are able to work with diverse groups of people
- Review Essential Skills profile for additional qualities
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

- Work in specialty shops, studios, cultural centres or museums.
- Some Artisans have their own businesses
- May work in a related area or occupation such as Custom Tailor, Dressmaker or Furrier

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- Completion of a 4,000 hour apprenticeship program is Required
- Native Clothing and Crafts Artisan is an unrestricted certified trade and therefore does not require a valid Certificate of Apprenticeship in order to work in the trade.

Training Availability

Northern College

Potential Earnings

- Wages¹ for a certified Native Clothing and Crafts Artisan range from \$10.25 to \$18.70 an hour, excluding overtime, journey persons usually earning the higher end of the pay scale.

Prospects For Employment

- Employment is expected to be below the average rate for all occupations through the year 2009²
- The retirement rate will likely be above average and the number of retiring workers should contribute to job openings. However, this will not be significant enough to have an impact on the work prospects.

Financial Incentives

- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

¹ www.labourmarketinformation.ca

² <http://www.jobfutures.ca/noc/7342.shtml>

Number of Hours: 4000 hours
Number of School Sessions: 2 x 8 weeks
Grade Requirement: Grade 12

Trade Code 296A
NOC 7611
Construction Sector

Description

- A Native Residential Construction worker can work in all aspects of contracting a First Nation house. Construction would include from excavating to finishing electrical and carpentry. They are trained in electrical, plumbing and carpentry
- Read and interpret blueprints, plans and diagrams
- Load and unload moving construction materials to work areas
- Using and maintaining power and hand tools
- Roughing in housing frames
- Planning and building foundations, including staking out the excavation site, excavating, calculating the volume of concrete required and pouring cement to make foundation
- Constructing roofing systems including establishing locations of attic access and lift trusses
- Performing plumbing work from rough in of plumbing to installing sinks/drains
- May be required to manage construction projects, which involve preparing and maintaining timelines, supervising work and sub-contracting

Personal Qualities

- In this field a construction worker could be working indoors or outdoors, and be exposed to a variety of weather conditions and high noise levels.
- Review Essential Skills profile for additional skills required
http://www.hrsdc.gc.ca/eng/workplaceskills/essential_skills/general/home.shtml

Career Opportunities

- Native Residential Construction worker are employed in the construction sector. They typically are hired by a construction company either residential building developers, building construction firms, exterior construction firms, or construction contractors
- it is common to work a 35-40 hour work week and be prepared to travel to different work sites

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- Completion of a 4000 hour apprenticeship program is required

Training Availability

Northern College

Potential Earnings

- Apprentices earn less than a Journey person, but as their skills improve their wage increases
- Wages are around \$14.00 an hour, excluding overtime

Prospects For Employment

- The employment growth rate will likely continue to be below average because new technologies should continue to improve productivity, allowing employers to do more with fewer workers and the need for more specialized workers¹

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year
- Apprentices can apply for the Apprenticeship Job Creation Tax Credit

Additional Information

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathways.pdf

National Occupational Classification

www5.hrsdc.gc.ca/NOC

¹<http://www.jobfutures.ca/noc/7611p3.shtml>

Number of Hours: 4000 hours
Number of School Sessions: 576 hours
Grade Requirement: Grade 12

Trade Code 631A
NOC 7245
Service Sector

Description

- Plan and prepare 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
- Perform 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
- Terminate/splice cables by installing mounting equipment, fibre and copper terminating and splicing components, electrical protection equipment, grounding, bonding connections/cables, cross connecting and patching cables
- Perform 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
- Perform internet-working installation by confirming networking needs and identifying, selecting, installing and testing internet-working hardware and components
- Troubleshoot cable systems/hardware by identifying and repairing UTP/STP/ScTP, coaxial cable systems, equipment connecting cables and fibre optic systems
- Perform professional business practices and effective communication with customers

Personal Qualities

- You can tolerate some repetitive work
- You may be required to work in cramped areas or at heights
- You may 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 safety conscious
- You are willing to keep up with technological change

Career Opportunities

- 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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- 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 challenge the Certificate of Qualification

Training Availability

Humber College

Potential Earnings

- Apprentices progress along an individual company's scale at a rate set by the company
- Wages range¹ from \$13.18 to \$27.66 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow about as fast as the average for all occupations through the year 2009²

Financial Incentives

- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction
- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit

Additional Information

International Brotherhood of Electrical Workers

www.ibew.org

Electrical Contractors Association of Ontario

www.ecao.org/

National Occupational Classification

www5.hrsdc.gc.ca/NOC/

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

¹ www.labourmarketinformation.ca

² www.careermatters.org

Painter and Decorator, Br. 1 Commercial and Residential

Number of Hours: 3 years at 2000 hours per year

Number of School Sessions: 3 x 8 weeks

Grade Requirement: Grade 10

Red Seal Trade

Trade Code 404C

NOC 7294

Construction Sector

Description

- Read and interpret blueprints, specifications and other instructions to determine quantities of the materials required
- Prepare and clean surfaces using methods such as scraping, sanding, sand-blasting, hydro-blasting and steam-cleaning; remove old wallpaper and loose paint; repair cracks and holes in walls, apply sealer
- Mix and thin paint to obtain desired colour and texture
- Apply paint or other materials, such as stains, lacquer, enamel, oil, varnish, fibreglass, metal coating or fire retardant using brushes, rollers or spray equipment
- Measure, cut and apply wallpaper or fabric to walls
- Assemble and erect scaffolding and swing gates
- Advise customer on selection of colour schemes and choice of wall coverings
- Be able to prepare surfaces in industrial applications
- Provide cost estimates to clients

Personal Qualities

- You are comfortable working on ladders much of the time
- You may be required to work in cramped areas or at considerable heights
- You may 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
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

- 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

Educational/Training Requirements

- 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 challenge the Certificate of Qualification

Training Availability

Ontario Industrial & Finishing Skills Centre

Toronto, ON

www.oifsc.com/

Potential Earnings

- Apprentices will be paid at least the Employment Standards Act (ESA) with wages increasing from 30% to 60% of that of a journeyperson
- Wages¹ generally range from \$15.00 to \$30.00 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Ratio journeyperson/apprentice is 1:1, 2:2, 3:2, 4:2 or 5:3
- Employment is expected to grow about as fast as the average for all occupations through the year 2014 with an estimated 20% of the field retiring²
- Employment opportunities are linked to the economy

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit

Additional Information

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

Made With the Trades

www.madewiththetrades.com/exploretrades.php

Ontario Construction Secretariat

www.iciconstruction.com

¹ www.careersinconstruction.ca/

² www.careersinconstruction.ca/

Painting and Decorating Br. 2, Industrial

Number of Hours: 3 years at 2000 hours per year
Number of School Sessions: 3 x 8 weeks
Grade Requirement: Grade 10

Trade Code 404D
NOC 7294
Construction Sector

Description

- Responsible for understanding and practicing safety precautions to protect yourself and others
- Use and maintain access equipment
- Be able to prepare the site for product application
- Apply coatings and linings
- Assemble and erect scaffolding and swing gates
- Provide cost estimates to clients
- Responsible for practicing quality control

Personal Qualities

- You are comfortable working on ladders much of the time
- You may be required to work in cramped areas or at considerable heights
- You may 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
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

- 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

Educational/Training Requirements

- 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 challenge the Certificate of Qualification

Training Availability

Ontario Industrial & Finishing Skills Centre
Toronto, ON
www.oifsc.com

Potential Earnings

- Apprentices will be paid at least the Employment Standards Act (ESA) with wages increasing from 30% to 60% of that of a journeyperson
- Wages¹ generally range from \$15.00 to \$30.00 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Ratio for journeyperson/apprentice is 1:1, 2:2, 3:2, 4:2 or 5:3
- Employment is expected to grow about as fast as the average for all occupations through the year 2014 with an estimated 20% of the field retiring²
- Employment opportunities are linked to the economy

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

Made With the Trades

www.madewiththetrades.com/exploretrades.php

Ontario Construction Secretariat

www.iciconstruction.com

¹ www.careersinconstruction.ca/

² www.careersinconstruction.ca/

Number of Hours: 5460 hours
Number of School Sessions: 2 x 9 weeks
Grade Requirement: Grade 12
Red Seal Trade

Trade Code 240P
NOC 1472
Service Sector

Description

- Receive and sort incoming parts and supplies
- Reconcile calculated inventory with physical counts
- Prepare, maintain and update purchasing files, reports and price lists
- Store items in an orderly and accessible manner in a warehouse, tool room, parts room, or other area
- Process incoming requisitions and issue or distribute parts and supplies for internal usage
- Maintain records of orders and the amount, kind and location of parts supplies on hand using manual or computerized inventory system
- Prepare requisition orders to replenish parts and supplies
- Provide 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
- Advise retail customers or internal users on appropriateness of parts, supplies or materials requested
- Manage and process 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 will have 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
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

- 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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- 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 challenge the Certificate of Qualification

Training Availability

Durham College
Sault College
Boreal College
Centennial College

Potential Earnings

- Apprentices may start at minimum wage or according to individual company rates and increase towards a journey person's wage over time
- Wages range¹ from \$9.15 to \$28.10 an hour, excluding overtime, with journey persons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow about as fast as the average for all occupations through the year 2009²
- Most journey persons work full time, however a sizeable percentage work part time

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

National Occupational Classification
www5.hrsdc.gc.ca/NOC

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

Automotive Jobs & Employment in Canada
www.automotivejobs.ca

Canadian Automotive Repair and Service (CARS)
www.cars-council.ca

¹ www.labourmarketinformation.ca

² www.labourmarketinformation.ca

Number of Hours: 7280 hours
Number of School Sessions: 3 x 8 weeks
Grade Requirement: Grade 12

Trade Code 443A
NOC 7232
Industrial Sector

Description

- Read and interpret complex engineering drawings, pattern drawings, and work process documentation
- Design and create foundry patterns and core boxes from metal, wood, plastic, and polystyrene for parts and components cast from metal
- Build precision pattern tooling using wood and metal cutting machines and equipment including saws, drills, grinders, lathes, mills, and electrical discharge machines (EDMs)
- Perform work in process measuring and checking using specialized and precision tools and equipment
- May program CNC machine tools

Personal Qualities

- You 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 skills www10.hrsdc.gc.ca/es/english/all_profiles.aspx

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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- 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 challenge the Certificate of Qualification

Training Availability

Sheridan College

Potential Earnings

- Apprentices start according to individual company rates and progress according to the company's wage scales over time
- Wages ranges¹ from \$16.65 to \$29.00 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Work prospects will continue to be fair

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Job Futures

www.jobfutures.ca

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

¹ www.labourmarketinformation.ca

Number of Hours: 5 years at 1800 hours per year
 Number of School Sessions: 3 x 8 weeks
 Grade Requirement: Grade 10
Compulsory Trade/Red Seal Trade

Trade Code 306A
 NOC 7251
 Construction Sector

Description

- Install, repair, and maintain pipes, fixtures and other plumbing equipment used for water distribution and wastewater disposal in new construction or existing residential, commercial and industrial buildings
- Install the piping for any process, including the conveyance of gas, or any tubing for a pneumatic or air handling system
- Read and understand design drawings, manufacturer's literature and installation diagrams for piping and connected appliances

Personal Qualities

- You may be required to work in cramped areas or at considerable heights
- You may 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
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

- 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

Educational/Training Requirements

- 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 challenge the Certificate of Qualification

Training Availability

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	

Potential Earnings

- Apprentices progress initially from 40% to 80% of the journeyperson wages over time
- Wages range¹ from \$14.00 to \$32.90 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Ratio journeyperson/apprentice is 1:1 or 3:1
- Employment is expected to grow about as fast as the average for all occupations through the year 2014²
- Employment opportunities are linked to the economy and the housing market and are cyclical

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

United Association Local 46
 Plumbers and Steamfitters Union, Toronto
www.ualocal46.org

United Association of Plumbers, Steamfitters and Pipe Welders Local 463, Bowmanville 905-623-1666

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathways.pdf

Job Futures
www.ontariojobfutures.ca/profile7251.html

Made With the Trades
www.madewiththetrades.com/exploretrades.php

Ontario Construction Secretariat
www.iciconstruction.com

¹ www.labourmarketinformation.ca

² www.careersinconstruction.ca/

Number of Hours: 6280 hours
Number of School Sessions: 3 x 8 weeks
Grade Requirement: Grade 12

Trade Code 282E
NOC 7334
Manufacturing Sector

Description

- Troubleshoot and repair engines, fuel systems (gas, propane, dual fuel, diesel)
- Troubleshoot and repair electrical systems and electrical vehicle control systems
- Troubleshoot and repair vehicle power trains (power shift transmissions, torque converters, pumps and linkages)
- Troubleshoot and repair brake systems, steering systems, hydraulic systems
- Troubleshoot and repair masts and systems

Personal Qualities

- You will 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 will make an investment in tools
- You like working with computerized equipment
- You may have to fix lift trucks at various work site locations

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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- 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 challenge the Certificate of Qualification

Training Availability

Centennial College
Fanshawe College
Common Core- Algonquin College

Potential Earnings

- Apprentices may start at minimum wage or according to individual company rates and increase towards a journeyperson's wage over time
- Wages¹ generally range from \$10.28 to \$20.84 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow about as fast as the average for all occupations through the year 2009²
- Most tradespersons work full time for a single employer

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Job Futures
www.jobfutures.ca/noc/731p3.shtml

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

¹ www.labourmarketinformation.ca

² www.careermatters.org

Number of Hours: 4 years at 2000 hours per year

Number of School Sessions: 4 x 2 weeks

Grade requirement: Grade 10

Red Seal Trade

Trade Code 434A

NOC 7244

Construction Sector

Description

- Install, maintain, troubleshoot and repair electrical distribution and transmission systems including overhead and underground power lines and cables, insulators, conductors, lightning arrestors, switches, transformers and other associated equipment
- Erect and maintain steel, wood or concrete poles, towers and guy wires
- Splice, solder and insulate conductors and related wiring to connect power distribution and transmission networks using splicing tools, related electrical equipment and tools
- Inspect and test overhead and underground power lines and cables and auxiliary equipment using electrical test equipment
- Climb ladders or operate hydraulic buckets when working aloft on poles and towers, or work in confined spaces such as trenches and tunnels to install power lines and cables and associated equipment
- Install and maintain street lighting systems

Personal Qualities

- You may be required to work in cramped areas or at considerable heights
- You may 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 need to be in good physical condition to carry materials
- Review Essential Skills profile for additional qualities required
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

- Journeypersons work for electric power generation, transmission and distribution companies, electrical contractors and public utility commissions; e.g., Hydro One
- Small and medium companies that do work for utilities
- Municipal utility companies
- Many power line workers belong to the Canadian Union of Skilled Workers
- Some power line workers have their own business

Educational/Training Requirements

- 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 challenge the Certificate of Qualification

Training Availability

Electrical and Utilities Safety Association (EUSA)
Toronto, ON
www.eusa.on.ca/

Potential Earnings

- Apprentices progress initially from 40% to 70% of journeyperson's wages over time
- Wages¹ range from \$12.00 to \$31.00 an hour, excluding overtime with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Ratio for journeyperson/apprentice is 1:1
- Employment is expected to grow about as fast as the average for all occupations through the year 2009²
- Employment opportunities are linked to the economy and are somewhat cyclical

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Power Workers Union
www.pwu.ca/index.php

Canadian Union of Skilled Workers
www.cusw.ca

International Brotherhood of Electrical Workers
www.ibew.org

Electrical Contractors Association of Ontario
www.ecao.org

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Ontario Construction Secretariat
www.iciconstruction.com

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Number of Hours: 8000 hours
Number of School Sessions: 3 x 8 weeks
Grade Requirement: Grade 12

Trade Code 200G
NOC 7261
Industrial Sector

Description

- Plan, prepare and organize metal fabrication by reading and interpreting drawings; perform metal fabrication calculations; lay out pattern and transfer features of drawings to work piece; writing, editing and verifying layout patterns
- Develop patterns for sheet metal using Computer Assisted Design and Drafting (CAD) software packages
- Operate conventional, Numerical Control (NC) and Computer Numerical Control (CNC) metal removal equipment with minimum waste and within engineering specifications
- Perform punching operations by selecting punching machine; operate and maintain hand and bench tools; operate conventional, NC and CNC punching equipment; write, edit and verify CNC programs
- Perform forming operations by selecting forming machines and die; operate and maintain hand and bench tools; sequence bending operations; operate conventional, NC and CNC brakes; operate manual and power forming roll and tube bending machines
- Verify quality of part or product, checking and recording dimensions, test welds, finish edges and surfaces, protect workplace material and record quality assurance data
- Join work piece metal by selecting type of weld; operate spot, metal inert gas (MIG), tungsten inert gas (TIG), and arc welding equipment; operate oxy-acetylene brazing and soldering equipment
- Install hardware and assemble components

Personal Qualities

- You will be working inside a factory with its noise and environmental conditions
- You like working with your hands
- You have the stamina to be on your feet for long periods of time
- You can work with expensive computer controlled equipment
- You enjoy working to extremely close tolerances

Career Opportunities

- Precision metal fabricators work for precision metal manufacturers, electronics and appliance manufacturers, aluminum doors and frame manufacturers and in shipbuilding

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- Completion of an 8,000 hour apprenticeship program is required

Training Availability

Durham College
Conestoga College
Niagara College
Northern College

Potential Earnings

- Apprentices progress according to the company's individual wage scale
- Wages¹ range from \$15.00 to \$36.90 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow about as fast as the average for all occupations through the year 2010²
- Employment opportunities are linked to the economy, demand for Precision Metal Fabricators will increase as more industrial, commercial and residential structures are built

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Number of Hours: 7280 hours
Number of School Sessions: 720 hours
Grade Requirement: Grade 12

Trade Code 268R
NOC 7314
Industrial Sector

Description

- Inspect interior and exterior components of freight, passenger and urban transit rail cars to determine defects and extent of wear and damage
- Repair and install railway car parts such as compressors, air valves, bearings, couplings, air cylinders and piping
- Repair and maintain electrical and electronic controls for propulsion and braking systems
- Repair defective or damaged metal and wood components, using hand and power
- Repair and repaint wooden fixtures
- Replace damaged windows and repair upholstery
- Test and adjust parts using testing gauges and other test equipment
- Perform and document 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 would like 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.

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- Courses in Mathematics, Science and Physics is recommended
- Completion of a 7280 apprenticeship program is required

Training Availability

Canadore College

Potential Earnings

- Apprentices may start at minimum wage, increasing towards a journeyperson's wage over time
- Wages range from \$15 to \$25 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

Employment in this field is considered fair.

Financial Incentives

- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant.
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

Ontario Job Futures

www.ontariojobfutures.ca

Number of Hours: 6280 hours
Number of School Sessions: 3 x 8 weeks
Grade Requirement: Grade 12
Red Seal Trade

Trade Code 690H
NOC 7383
Manufacturing Sector

Description

- Recreation vehicle technicians repair or replace electrical wiring, plumbing, propane gas lines, appliances, windows, doors, cabinets and structural frames in recreational vehicles. They do not service vehicle engines or drive trains.
- Recreation vehicle technicians usually work indoors in repair shops, and may be required to lift loads weighing up to 25 kilograms. A standard 40 hour work week is the norm, and shifts may be required, including evenings, weekends and holidays. The nature of the work may be seasonal.

Personal Qualities

- Strong oral communication and reading skills: oral communication skills. Recreation Vehicle Technicians use oral communication skills along with their trade skills to establish credibility and a sense of respect and trust with customers
- Good problem solving skills - they may sometimes conduct extensive problem solving on one unit over a period of weeks, for example, when testing and replacing a faulty wiring system in a motor home.
- The ability to work independently or as a team member
- Mechanical, electrical and electronics aptitude
- Review Essential Skills profile for additional skills
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

- Career progression within the trade may include Supervisory/Management positions
- Employers that hire Recreation Vehicle Mechanics include: RV Dealerships, RV Repair shops and RV Manufacturers

Educational/Training Requirements

- Completion of Grade 12 with a secondary school diploma, with credits in Math, Science and English is required
- Completion of a 6,280 hour apprenticeship program is required
- If you have completed 7,000 hours of on the job experience/training but you have not completed the Apprenticeship Program you may be eligible to challenge the Certificate of Qualification

Training Availability

Georgian College

Potential Earnings

- Apprentices may start at minimum wage, increasing towards a journeypersons wage over time
- Wages¹ typically range \$10.24 an hour to \$22.92 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow about as fast as the average for all occupations through the year 2009²

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employer who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Technical Standards & Safety Authority
www.tssa.org/regulated/fuels/training/fuelsTraining01.asp

Recreation Vehicle Dealers Association of Canada (RVDA)
www.rvcareers.ca

Recreational Vehicle Service Academy
1012 10th St. East Palmetto, FL. 34221
941-722-5256
www.rvsa.net

Canadian Recreational Vehicle Association
2175 Sheppard Avenue East, Suite 301,
Toronto, ON M2J 1W8
www.crva.ca/main.html

¹ www.labourmarketinformation.ca

² www.labourmarketinformation.ca

Refrigeration and Air Conditioning Systems Mechanic or Residential Air Conditioning Systems Mechanic

Number of Hours: 5 years at 1800 hours per year

Number of School Sessions: 3 x 8 weeks

Grade Requirement: Grade 10

Compulsory Trade/Red Seal Trade

Trade Code 313A

NOC 7313

Construction Sector

Description

- Read and interpret blueprints, drawings or other specifications
- Measure and lay out reference points for installation
- Assemble and install refrigeration or air conditioning components such as motors, controls, gauges, valves, circulating pumps, condensers, humidifiers, evaporators and compressors using hand and power tools
- Measure and cut piping, and connect piping using welding and brazing equipment
- Install, troubleshoot and overhaul entire heating, ventilation, air handling, refrigeration and air conditioning systems
- Start up system and test for leaks using testing devices
- Recharge system with refrigerant, check and test regulators, calibrate system and perform routine maintenance or servicing
- Repair and replace parts and components for entire refrigeration, air conditioning, ventilation or heat pump systems

Personal Qualities

- You may be required to work in cramped areas or on roof tops
- You may work outside at various times of the year
- You will climb up and down ladders
- You have the stamina to be on your feet for long periods of time
- You are safety conscious
- You need to be in good physical condition to carry materials
- Review Essential Skills profile for additional qualities
www10.hrsdc.gc.ca/es/eng/all_profiles.aspx

Career Opportunities

- Refrigeration and Air Conditioning 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

Educational/Training Requirements

- 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 challenge the Certificate of Qualification

Training Availability

Algonquin College
George Brown College
Mohawk College

Potential Earnings

- Apprentices progress initially from 40% to 80% of journeyperson's wages over time
- Wages¹ range from \$15.00 to \$38.25 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Ratio for journeyperson/apprentice is 1:1, 2:1, 3:2, 4:2, 5:3, 6:3 or 7:4
- Employment is good and expected to grow more rapidly than average for all occupations through the year 2009² and grow at an average, or slightly above average through 2014
- Employment opportunities are linked to the economy and are somewhat cyclical with spring and summer being high demand times

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

United Association of Plumbers,
Steamfitters and Pipe Welders

www.ua.org

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Made with the Trades

www.madewiththetrades.com/exploretrades.php

Ontario Construction Secretariat

www.iciconstruction.com

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Number of Hours: 4000 hours
Number of School Sessions: 8 weeks, 4 weeks
Grade Requirement: Grade 10
Red Seal Trade

Trade Code 452A
NOC 7264
Construction Sector

Description

- Fabricate, handle, cut, sort, bend, rig, place, burn, weld and tie all materials used to reinforce concrete structures
- Install reinforcing steel and accessories in the building of types of concrete structures including buildings, sewers, highways, bridges and reservoirs
- Read and interpreting blueprints

Personal Qualities

- You may be required to work both indoors and outdoors and subjected to various weather conditions
- You may be required to frequently lift and carry heavy objects
- Ability to bend or stoop repeatedly
- Good manual dexterity and physical strength would be an asset in this trade
- Review Essential Skills profile for additional qualities
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

- 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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 10; however, many employers required Grade 12
- Completion of a 4,000 hour apprenticeship program is required
- Takes 2 years to complete apprenticeship
- If you have completed 4000 hours of on the job experience / training but you have not completed the Apprenticeship program you may be eligible to challenge the Certificate of Qualification

Training Availability

Sault College

Potential Earnings

- Apprentices earn less than a Journeyperson, but as their skills improve their wage increases
- Wages range from \$15.00 to \$36.00 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow at an average rate in this industry

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathway.pdf

National Occupational Classification

www5.hrsdc.gc.ca/NOC

www.jobfutures.ca/noc/7264p3.shtml

Number of Hours: 2 years at 2000 hours per year

Number of School Sessions: 2 x 8 weeks

Grade Requirement: Grade 10

Red Seal Trade

Trade Code 449A

NOC 7291

Construction Sector

Description

- Install, repair or replace built-up roofing systems using materials such as asphalt saturated felts and hot asphalt and gravel
- Install, repair or replace single-ply roofing systems using waterproof sheet materials such as modified plastics, elastomeric or other asphaltic compositions
- Install, repair or replace shingles, shakes and other roofing tiles on sloped roofs of buildings
- Install sheet metal flashings
- Apply waterproof coatings to concrete or other masonry surfaces below or above ground level
- Install and repair metal roofs using hand and power tools
- Set up scaffolding to provide safe access to roofs
- Estimate materials required and quote costs
- Set up manual and power hoists, determine the weight of the load, and use hand signals during lifts

Personal Qualities

- You are not afraid to work at considerable heights
- You 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 required

www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

- Roofers are employed by roofing contractors on construction or repair jobs
- Some roofers are members of unions
- Some roofers own their own companies

Educational/Training Requirements

- 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 challenge the Certificate of Qualification

Training Availability

Mohawk College
Confederation College

Potential Earnings

- Apprentices progress along a company's wage scale or in the case of union workers, according to the collective agreement
- Wages range¹ from \$15.25 to \$27.00 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Ratio for journeyperson/apprentice is 1:1 or 3:1
- Employment is expected to grow about as fast as the average for all occupations through the year 2014²
- Employment opportunities are seasonal and workers may expect periods of unemployment due to inclement weather even during the summer
- There is steady demand for repair work even if new construction is slow, as roofing systems require regular replacement

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Ontario Industrial Roofing Contractors Association

www.ontarioroofing.com/

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

National Occupational Classification

www5.hrsdc.gc.ca/NOC/

Made With the Trades

www.madewiththetrades.com/exploretrades.php

Ontario Construction Secretariat

www.iciconstruction.com

¹ www.labourmarketinformation.ca

² <http://www.careersinconstruction.ca/>

Number of Hours: 5 years at 1800 hours per year
Number of School Sessions: 3 x 8 weeks
Grade Requirement: Grade 10
Compulsory Trade/Red Seal Trade

Trade Code 308A
NOC 7261
Construction Sector

Description

- Read engineering and architectural drawings, sketches and work specifications to be performed
- Lay out, measure and mark sheet metal according to drawings or templates
- Develop patterns for sheet metal using computer assisted design and drafting (CAD) software packages
- Operate 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 operate computerized laser or plasma cutting equipment to cut sheet metal
- Fabricate, assemble, install and repair sheet metal products
- Shear, form, fabricate, weld, solder and assemble 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 may be required to work in cramped areas or at considerable heights
- You have the stamina to be on your feet for long periods of time
- You need to be 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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 10; however, employers and unions may 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 and have not completed the Apprenticeship Program you may be eligible to challenge the Certificate of Qualification

Training Availability

George Brown College Mohawk College
Algonquin College Fanshawe College

Potential Earnings

- Apprentices progress initially from 40% to 80% of journey person's wages over time
- Wages¹ range from \$15.00 to \$36.90 an hour, excluding overtime, with journey persons usually earning the higher end of the pay scale

Prospects For Employment

- Ratio for journey person/apprentice is 1:1 or 3:1
- Employment is expected to grow about as fast as the average for all occupations through the year 2014. It is expected that the trade will have to replace approximately 15% of the workforce due to retirement²
- Employment opportunities are linked to the economy and the housing market and are cyclical

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Ontario Sheet Metal Air Handling Group
www.ontsm.org

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathways.pdf

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Made With the Trades
www.madewiththetrades.com/exploretrades.php

Ontario Construction Secretariat
www.iciconstruction.com

Sheet Metal Workers & Roofers Local Union 30
www.smwia-l30.com

¹ www.labourmarketinformation.ca

² www.careersinconstruction.ca/

Number of Hours: 4520 hours
Number of School Sessions: 2 x 8 weeks
Grade Requirement: Grade 12

Trade Code 435A
NOC 7335
Manufacturing Sector

Description

- Small engine technicians repair and service small gasoline and diesel powered equipment such as garden tractors, lawn mowers and other related equipment
- Review work orders and discuss work to be performed with supervisor
- Determine estimates of repair cost
- Set up and operate small-power equipment
- Inspect and test small engines, other mechanical components, using test devices to diagnose and isolate faults
- Adjust, repair or replace mechanical or electrical system parts and components using hand tools and equipment
- Perform scheduled maintenance service on equipment
- Maintain and repair engines and engine components
- Test and adjust repaired equipment for proper performance
- Advise 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 will 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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- 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 challenge the Certificate of Qualification

Training Availability

Durham College
Georgian College
Sault College

Potential Earnings

- Apprentices may start at minimum wage or according to company rates and increase towards a journeypersons wage over time
- Wages¹ generally range from \$10.28 to \$20.84 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow about as fast as the average for all occupations through the year 2009²
- Work in this trade is often of a seasonal nature, many tradespersons work for a company that is also involved in the summer recreational vehicle business

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Job Futures
www.jobfutures.ca/noc/733.shtml

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

¹ www.labourmarketinformation.ca

² www.careermatters.org

Sprinkler and Fire Protection Installer

Number of Hours: 4 years at 1800 hours per year

Number of School Sessions: 3 x 8 weeks

Grade Requirement: Grade 10

Red Seal Trade

Trade Code 427A

NOC 7252

Construction Sector

Description

- Read and interpret drawings, specifications and fire codes to determine layout requirements
- Install clamps, brackets and hangers to support piping systems and sprinkler and fire protection equipment using hand and power tools
- Sprinkler system installers fabricate, install, test, maintain and repair water, foam, carbon dioxide and dry chemical sprinkler systems in buildings for fire protection purposes
- Install valves, alarms and associated equipment
- Use air or liquid pressure equipment to test systems for leaks
- Perform work indoors on residential and commercial Buildings

Personal Qualities

- You may be required to work in cramped areas or at considerable heights
- You have the stamina to be on your feet for long periods of time
- You need to be in good physical condition to carry materials
- Review Essential Skills profile for additional qualities www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

- 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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 10; however, employers and unions 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 and have not completed the Apprenticeship Program you may be eligible to challenge the Certificate of Qualification

Training Availability

Sprinkler Fitters Local 853
Markham, ON 905-477-6022
www.ualocal853.org

Potential Earnings

- Apprentices progress initially from 40% to 80% of journeyperson's wages over time
- Wages typically range¹ from \$16.00 to \$38.60 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Ratio for journeyperson/apprentice is 1:1
- Employment is expected to grow about as fast as the average for all occupations through the year 2009²

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

United Association of Plumbers, Steamfitters and Pipe Welders

www.ua.org

Canadian Automatic Sprinkler Association

www.casa-firesprinkler.org/

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

National Occupational Classification

www5.hrsdc.gc.ca/NOC/

Made With the Trades

www.madewiththetrades.com/exploretrades.php

Ontario Construction Secretariat

www.iciconstruction.com

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Number of Hours: 5 years at 1800 hours per year
 Number of School Sessions: 3 x 8 weeks
 Grade Requirement: Grade 10
Compulsory Trade/Red Seal Trade

Trade Code 307A
 NOC 7252
 Construction Sector

Description

- Layout, assemble, fabricate, maintain and repair piping systems carrying water, steam, chemicals and fuel in heating, cooling, lubricating and other process piping systems
- Read and interpret drawings, blueprints and specifications to determine layout requirements
- Select type and size of pipe required
- Install supports, valves, piping and control systems
- Test systems for leaks using testing equipment
- Remove and replace worn components and reactivate Systems

Personal Qualities

- You may be required to work in cramped areas or at considerable heights
- You may 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 need to be in good physical condition to carry materials
- Review Essential Skills profile for additional qualities
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

- Contractors in the industrial, commercial and institutional sectors are major employers
- Many steamfitters own their own business

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 10; however, employers and unions may 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 challenge the Certificate of Qualification

Training Availability

George Brown College
 Mohawk College
 Sault College

Potential Earnings

- Apprentices progress initially from 40% to 80% of journeyperson's wages over time
- Wages range¹ from \$16.00 to \$38.60 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Ratio for journeyperson/apprentice is 1:1 or 3:1
- Employment is expected to grow about as fast as the average for all occupations through the year 2011 and then is expected to grow at a faster rate until 2014. In the next 10 years it is expected that 15% of the sector is expected to need to be replaced due to retirement²
- Employment opportunities are linked to the economy and the housing market and are cyclical

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

United Association of Plumbers,
 Steamfitters and Pipe Welders Local 463
 Bowmanville 905-623-1666
www.ua.org

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

Made With the Trades
www.madewiththetrades.com/exploretrades.php

Ontario Construction Secretariat
www.iciconstruction.com

¹ www.labourmarketinformation.ca

² www.careersinconstruction.ca/

Number of Hours: 2240 hours
Number of School Sessions: 2 x 6 weeks
Grade Requirement: Grade 12

Trade Code 278B
NOC 7372
Industrial Sector

Description

- Surface Blasters fill blast holes with explosives and detonate explosives to dislodge coal, ore, and rock to demolish structures
- Read instructions or diagrams
- Lay out drill pattern and determine depth and diameter of blast holes
- Conduct field tests to determine the type and quality of explosives required
- Assemble primer charges
- Load explosives in blast holes by hand
- Connect electrical wires, detonating cords or fuses to blasting machines
- Handle, store and transport explosives and accessories

Personal Qualities

- Surface Blasters require a high level of skill, concentration, strength, and physical fitness
- Good at making quick and important decisions
- Comfortable around hazardous materials
- Review Essential Skills profile for additional skills required
http://www.hrsdc.gc.ca/eng/workplaceskills/essential_skills/general/home.shtml

Career Opportunities

- Surface Blasters work full-time hours, primarily outdoors and may be exposed to cold temperatures
- May work in remote locations
- Employers who hire Surface Blasters in the following industries: mining companies, quarrying companies, construction companies and drilling and blasting contractors

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- Completion of a 2240 hour apprenticeship program is required
- If you have completed 2600 hours of on the job experience / training but you have not completed the Apprenticeship program you may be eligible to challenge the Certificate of Qualification

Training Availability

Canadore College

Potential Earnings

- Apprentices earn less than a Journeyperson, but as their skills improve their wage increases
- Wages range from \$18.00 to \$20.00 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow at an average rate in this industry

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year Apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathway.pdf

National Occupational Classification

www5.hrsdc.gc.ca/NOC/

Number of Hours: 7280 hours
 Number of School Sessions: 3 x 8 weeks
 Grade Requirement: Grade 12
Red Seal Trade

Trade Code 430A
 NOC 7232
 Industrial Sector

Description

- Read and interpret engineering drawings and specifications of tools, dies, prototypes or models
- Prepare templates and sketches, and determine work processes
- Compute dimensions and tolerances and set up machine tools
- Position, secure, measure and work metal stock or castings to lay out for machining
- Set up, operate and maintain 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
- Verify machined parts for conformance to specifications using precision measuring instruments such as Coordinate Measuring Machines (CMM), vernier calipers, micrometers, and electronic measuring devices
- Fit and assemble or disassemble parts using hand tools
- Test 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 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 using computers
- Review Essential Skills profile for additional skills
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- 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 challenge the Certificate of Qualification

Training Availability

Durham College	Conestoga College
Fanshawe College	Georgian College
Mohawk College	St. Clair College
Sheridan College	

Potential Earnings

- Apprentices start according to individual company rates and progress according to the company's wage scales over time
- Wages range¹ is usually from \$16.65 to \$29.00 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Job Futures
www.jobfutures.ca/noc/7232.shtml

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

¹ www.labourmarketinformation.ca

Number of Hours: 7280 hours
Number of School Sessions: 8 x 3 weeks
Grade Requirement: Grade 12

Trade Code 630T
NOC 7232
Industrial Sector

Description

- Read and interpret complex engineering drawings, bills of materials, and tool building drawings and specifications of tools, prototypes or models
- Prepare templates and sketches, and determine work processes
- Compute dimensions and tolerances and set up machine tools
- Position, secure, measure and work metal stock or castings to lay out for machining
- Set up, operate and maintain 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
- Assemble and fit tool components
- Verify machined parts for conformance to specifications using precision measuring instruments such as Coordinate Measuring Machines (CMM), vernier calipers, micrometers and electronic measuring devices
- Final fit and inspect subassemblies and components
- Finalize finishes and tools
- Test completed tools, dies, jigs or fixtures for proper operation
- May program Computerized Numerically Controlled (CNC) machine tools

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 skills
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- 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 challenge the Certificate of Qualification

Training Availability

Conestoga College	Durham College
Fanshawe College	Georgian College
Mohawk College	St. Clair College
Sheridan College	

Potential Earnings

- Apprentices start according to individual company rates and progress according to the company's wage scales over time
- Wages range¹ from \$12.25 to \$27.80 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Job Futures
www.jobfutures.ca/noc/7232.shtml

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

¹ www.labourmarketinformation.ca

Number of Hours: 6000 hours
Number of School Sessions: 3 x 8 weeks
Grade Requirement: Grade 12
Compulsory Trade/Red Seal Trade

Trade Code 310T
NOC 7321
Motive Power Sector

Description

- Review work orders and discuss work with supervisor
- Inspect motor in operation, and road test motor vehicle
- Test systems and components using computerized diagnostic and other testing devices to diagnose and isolate faults
- Adjust, repair or replace 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
- Test and adjust repaired systems to manufacturer's performance specifications
- Perform scheduled maintenance service, such as oil changes, lubrications and tune-ups
- Advise customers on work performed, general vehicle conditions and future repair requirements

Personal Qualities

- You will 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 will have to keep up with changing technology on a consistent basis
- You will 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
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- Completion of a 6,000 hour apprenticeship program is required
- 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 challenge the Certificate of Qualification

Training Availability

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

Potential Earnings

- Apprentices may start at minimum wage or according to individual company rates and increases towards a journeyperson's wage over time
- Wages range¹ from \$10.00 to \$25.50 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is good and expected to grow about as fast as the average for all occupations through 2009²
- Most tradespersons work full time for a single employer

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Job Futures

www.jobfutures.ca/noc/7321.shtml

National Occupational Classification

www5.hrsdc.gc.ca/NOC/

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

Automotive Jobs

www.automotivejobs.ca

Canadian Automotive Repair and Service (CARS)

www.cars-council.ca

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Truck Trailer Service Technician

Number of Hours: 4000 hours
Number of School Sessions: 2 x 8 weeks
Grade Requirement: Grade 12
Compulsory Trade/Red Seal Trade

Trade Code 310J
NOC 7321
Motive Power Sector

Description

- Review work orders and discuss work with supervisor
- Inspect truck trailer systems and components using computerized diagnostic and other testing devices to diagnose and isolate faults
- Adjust, repair or replace 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
- Test and adjust repaired systems to manufacturer's performance specifications
- Perform scheduled maintenance service
- Advise customers on work performed, general trailer condition and future repair requirements

Personal Qualities

- You are not bothered by standing on concrete all day
- You will 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 must bend down and reach up frequently
- You have and use physical strength on the job
- You will make a significant investment in tools
- Review Essential Skills profile for additional qualities
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

Career Opportunities

- Truck trailer service technicians are employed at trailer manufacturing, sales and repair facilities

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- Completion of a 4,000 hour apprenticeship program is required
- 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 challenge the Certificate of Qualification

Training Availability

Centennial College
Conestoga College
Mohawk College

Potential Earnings

- Apprentices may start at minimum wage or according to individual company rates and increase towards a journeyperson's wage over time
- Wages range¹ from \$10.00 to \$25.50 an hour, excluding overtime, with journeyperson's usually earning the higher end of the pay scale

Prospects For Employment

- Employment is good and expected to grow about as fast as the average for all occupations through the year 2009²
- Most tradespersons work full time for a single employer

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Job Futures

www.jobfutures.ca/noc/7321.shtml

National Occupational Classification

www5.hrsdc.gc.ca/NOC/

Apprenticeship Subject Pathways

www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Number of Hours: 5000 hours
Number of School Sessions: 3 x 8 weeks
Grade Requirement: Grade 12

Trade Code 421C
NOC 7335
Motive Power Sector

Description

- Responsible for inspecting, diagnosing, maintaining and repairing mowing equipment, golf carts, traction units, small powered equipment and towing behind equipment
- Be knowledgeable in the Occupational Health and Safety Act and Workplace Hazardous Materials Information Systems (WHMIS)
- Have a thorough understanding of shop equipment, tools and equipment
- Understanding and demonstrating strong customer service skills
- Have knowledge of industry manuals, catalogues and software regarding parts and procedures

Personal Qualities

- You enjoy working with tools and equipment
- You have a desire for continuous learning
- You like working outdoors
- You are able to be on your feet for extended periods of time
- You like working with tools and equipment
- You have strong oral communications skills and enjoy interacting with people

Career Opportunities

- Turf Equipment Technicians are usually employed at golf clubs and courses, equipment distributors and dealerships, equipment rental shops, provincial parks and/or sod farms

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- Completion of a 5,000 hour apprenticeship program is required

Training Availability

Information not available at this time, contact Employment Ontario at 905-837-7721 or 1-800-461-4608

Potential Earnings

- Apprentices start according to individual company rates and progress according to the company's wage scales over time
- Wages range from \$12.00 to \$22.00 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is average and expected to grow as fast as average for all occupations through the year 2009

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Apprentices may be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Golf Association of Ontario
www.gao.ca

Ontario Parks
www.ontarioparks.com

Nursery Sod Growers of Association of Ontario
www.nsgao.com/

Number of Hours: 5280 hours
 Number of School Sessions: 10, 6, 8 weeks
 Grade Requirement: Grade 12
Red Seal Trade

Trade Code 456A
 NOC 7265
 Industrial Sector

Description

- Read and interpret blueprints or welding process specifications
- Lay out, cut and form metal to specification
- Fit sub-assemblies and assemblies together and prepare assemblies for welding
- Operate 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)
- Operate metal shaping machines such as brakes, shears and other metal straightening and bending machines

Personal Qualities

- You 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
www10.hrsdc.gc.ca/es/english/all_profiles.aspx

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

Educational/Training Requirements

- The minimum entry for apprenticeship is Grade 12
- Completion of a 5,280 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 challenge the Certificate of Qualification

Training Availability

Conestoga College	Durham College
Confederation College	Kemptville College
La Cité Collégiale	Mohawk College
Niagara College	Northern College
Collège Boréal	

Potential Earnings

- Apprentices start according to individual company rates and progress according to the company's wage scales over time or as per a collective agreement
- Wages range¹ from \$13.00 to \$24.50 an hour, excluding overtime, with journeypersons usually earning the higher end of the pay scale

Prospects For Employment

- Employment is expected to grow as fast as the average for all occupations through the year 2009²
- Most tradespersons work full time for a single employer

Financial Incentives

- Employers who employ first, second and third year apprentices can apply for the Apprenticeship Training Tax Credit
- Employers who employ first and second year apprentices can apply for the Apprenticeship Job Creation Tax Credit
- Apprentices are able to apply for the Apprenticeship Incentive Grant
- Apprentices may also be able to apply for the Tradesperson's Tools Tax Deduction

Additional Information

Canadian Welding Bureau
www.scc.ca/certifiers/cb_cwb_e.pdf

Canadian Welding Skills
www.weldingskills.com/certification.html

Apprenticeship Subject Pathways
www.edu.gov.on.ca/eng/training/apprenticeship/skills/pathwaye.pdf

Ontario Construction Secretariat
www.iciconstruction.com

National Occupational Classification
www5.hrsdc.gc.ca/NOC/

¹ www.labourmarketinformation.ca

² www.ontariojobfutures.ca

Appendix A - Ontario Colleges

Below are 24 Ontario Colleges of Applied Arts and Technology established under the Ministry of Training, Colleges and Universities Act and are subject to the regulations set by the Government of Ontario.

Main campuses are listed, but each web site should be checked for other campuses and availability of courses.

Algonquin College
Ottawa, ON
www.algonquincollege.com

Collège Boréal
Sudbury ON
www.borealc.on.ca

Cambrian College
Sudbury ON
www.cambriancollege.ca

Canadore College
North Bay ON
www.canadorec.on.ca

Centennial College
Toronto ON
www.centennialcollege.ca

Conestoga College
Kitchener ON
www.conestogac.on.ca

Confederation College
Thunder Bay ON
www.confederationc.on.ca

Durham College
Oshawa ON
www.durhamcollege.ca

Fanshawe College
London ON
www.fanshawec.ca

Fleming College
Peterborough ON
www.flemingc.on.ca

George Brown College
Toronto ON
www.georgebrown.ca

Georgian College
Barrie ON
www.georgianc.on.ca

Humber College
Toronto ON
www.humber.ca

La Cité Collégiale
Ottawa ON
www.lacitec.on.ca

Lambton College
Sarnia ON
www.lambton.on.ca

Loyalist College
Belleville ON
www.loyalistcollege.com

Mohawk College
Hamilton ON
www.mohawkcollege.ca

Niagara College
Niagara Falls ON
www.niagaracollege.ca

Northern College
Timmins ON
www.northernc.on.ca

St. Clair College
Welland ON
www.stclaircollege.ca

St. Lawrence College
Kingston ON
www.stlawrencecollege.ca

Sault College
Sault Ste. Marie ON
www.saultcollege.ca

Seneca College
Toronto ON
www.senecac.on.ca

Sheridan College
Oakville ON
www.sheridaninstitute.ca

Appendix B - Apprenticeable Trades In The Province Of Ontario

	Program	Code	NOC Code	Sector	Entry Grade	Compulsory Certification	ATTC Eligible	Red Seal
1	Aboriginal Early Childhood Educator	620B	4214	Service	12			
2	Agricultural Equipment Technician	425A	7312	Motive	12		Yes	Yes
3	Agriculture – Fruit Grower	640F	8251	Service	12			
4	Agriculture – Swine Herdsperson	640S	8253	Service	12			
5	Agriculture – Dairy Herdsperson	640D	8253	Service	12			
6	Aircraft Maintenance Engineer	610C	7315	Industrial	12		Yes	
7	Alignment & Brakes Technician	310E	7321	Motive	12	Yes	Yes	
8	Appliance Service Technician	445A	7332	Service	12			Yes
9	Arborist	444A	2225	Service	12			
10	Architectural Glass and Metal Technician	424A	7292	Construction	10		Yes	Yes
11	Auto Body & Collision Damage Repairer Br. 1	310B	7322	Motive	12	Yes	Yes	Yes
12	Auto Body Repairer Br.2	310Q	7322	Motive	10	Yes	Yes	
13	Automotive Electronic Accessory Technician	310K	7321	Motive	12	Yes	Yes	
14	Automotive Glass Technician	274L	7321	Motive	12		Yes	
15	Automotive Painter	410N	7322	Motive	12		Yes	Yes
16	Automotive Service Technician	310S	7321	Motive	12	Yes	Yes	Yes
17	Baker	423A	6252	Service	12			
18	Baker/Patisserie	423C	6252	Service	12			Yes
19	Bearings Mechanic	615A	7321	Industrial	12		Yes	
20	Blacksmith	600P	7266	Industrial	12		Yes	
21	Brick and Stone Mason	401A	7281	Construction	8		Yes	Yes
22	Cabinetmaker	438A	7272	Industrial	12		Yes	Yes
23	Cement (Concrete) Finisher	244G	7282	Construction	10		Yes	
24	Cement Mason	419A	7282	Construction	8		Yes	
25	Chef	415C	N/A	Service	12, cook IP C/Q + 1 yr			
26	Child and Youth Worker	620A	4212	Service	12			
27	CNC Programmer	670C	N/A	Industrial	C/Q		Yes	
28	Composite Structures Technician	267G	7315	Industrial	12		Yes	
29	Concrete Pump Operator	637C	N/A	Construction	12			
30	Construction Boiler Maker	428A	7262	Construction	10		Yes	Yes
31	Construction Craft Worker	450A	7611	Construction	10		Yes	Yes
32	Construction Millwright	426A	7311	Construction	10		Yes	
33	Cook – Assistant Br. 1	415B	6242	Service	10			
34	Cook – Br. 2	415A	6242	Service	12			Yes
35	Developmental Services Worker	620D	4212	Service	12			
36	Die Designer	670D	7232	Industrial	C/Q		Yes	
37	Draftsperson, Mechanical	614A	2253	Industrial	12		Yes	
38	Draftsperson, Plastic Mould Design	614B	2253	Industrial	12		Yes	
39	Draftsperson, Tool and Die Design	614C	2253	Industrial	12		Yes	
40	Drywall, Acoustic and Lathing Applicator	451A	7284	Construction	10		Yes	Yes
41	Drywall, Finisher and Plasterer	453A	7284	Construction	8		Yes	

	Program	Code	NOC Code	Sector	Entry Grade	Compulsory Certification	ATTC Eligible	Red Seal
42	Early Childhood Educator	620C	4214	Service	12			
43	Early Childhood Educator – Inclusion Practices	620G	4214	Service	12 + ECE C/A or diploma			
44	Educational Assistant	620E	6472	Service	12			
45	Electric Motor System Technician	446A	7333	Industrial	12		Yes	Yes
46	Electrical Control (Machine) Builder	617A	9485	Industrial	12		Yes	
47	Electrician – Construction and Maintenance	309A	7241	Construction	10	Yes	Yes	Yes
48	Electrician – Domestic and Rural	390C	7241	Construction	10	Yes	Yes	
49	Electrician – Signal Maintenance (TTC)	289F	N/A	Industrial	N/A		Yes	
50	Electronic Service Technician	416E	2242	Service	12		Yes	Yes
51	Elevating Devices Mechanic	636E	7318	Industrial	12		Yes	
52	Entertainment Industry Power Technician	269E	5226	Industrial	12		Yes	
53	Exterior Insulated Finishing Systems Mechanic	455A	7293	Construction	12		Yes	
54	Facilities Mechanic	255W	N/A	Industrial	12		Yes	
55	Facilities Technician	255B	N/A	Industrial	12		Yes	
56	Fitter Assembler (Motor Assembly)	661H	9486	Industrial	12		Yes	
57	Fitter Welder	616F	7263	Industrial	N/A		Yes	
58	Floor Covering Installer	448A	7295	Construction	10		Yes	Yes
59	Fuel and Electrical Systems Technician	310C	7321	Motive	12	Yes	Yes	
60	Gem setter/Goldsmith	606G	7344	Service	12			
61	General Carpenter	403A	7271	Construction	10		Yes	Yes
62	General Machinist	429A	7231	Industrial	12		Yes	Yes
63	Hairstylist	332A	6271	Service	12	Yes		Yes
64	Hardware, Lumber and Building Materials Retailer	606W	6421	Service	12			
65	Hazardous Materials Worker	253H	N/A	Construction	12			
66	Heat and Frost Insulator	253A	7293	Construction	10		Yes	
67	Heavy Duty Equipment Technician	421A	7312	Motive	12		Yes	Yes
68	Heavy Equipment Operator: Dozer	636C	7421	Construction	12		Yes	
69	Heavy Equipment Operator: Excavator	636B	7421	Construction	12		Yes	
70	Heavy Equipment Operator: Tractor Loader, Backhoe	636A	7421	Construction	12		Yes	
71	Hoisting Engineer: Mobile Crane Operator, Br. 1	339A	7371	Construction	10	Yes	Yes	Yes
72	Hoisting Engineer: Mobile Crane Operator, Br. 2	339C	7371	Construction	10	Yes	Yes	
73	Hoisting Engineer: Tower Crane Operator	339B	7371	Construction	10	Yes	Yes	
74	Horse Groom	600H	8253	Service	12			
75	Horse Harness Maker	219D	9452	Service	12			
76	Horticultural Technician	441C	2225	Service	12			Yes
77	Hydraulic/Pneumatic Mechanic	277Z	7312	Industrial	12		Yes	
78	Industrial Electrician	442A	7241	Industrial	12		Yes	Yes
79	Industrial Mechanic Millwright	433A	7311	Industrial	12		Yes	Yes
80	Information Technology Contact Centre – Customer Care Agent	634E	2282	Service	12		Yes	
81	Information Technology Contact Centre – Inside Sales Agent	634D	2282	Service	12		Yes	
82	Information Technology Contact Centre – Technical Support Agent	634A	2282	Service	12		Yes	

	Program	Code	NOC Code	Sector	Entry Grade	Compulsory Certification	ATTC Eligible	Red Seal
83	Information Technology Hardware Technician	634B	2282	Service	12		Yes	
84	Information Technology Network Technician	634C	2282	Service	12		Yes	
85	Instrumentation and Control Technician	447A	2243	Industrial	12		Yes	Yes
86	Ironworker – Generalist, Br. 1	420B	7264	Construction	10			Yes
87	Ironworker – Structural and Ornamental, Br. 2	420A	7264	Construction	10		Yes	Yes
88	Light Rail Overhead Contact Systems Linesperson (TTC)	207S	N/A	Industrial	12		Yes	
89	Locksmith	259L	7383	Industrial	12		Yes	
90	Machine Tool Builder and Integrator	430M	7316	Industrial	12		Yes	
91	Marine Engine Technician	435B	7335	Motive	12		Yes	
92	Metal Fabricator (Fitter)	437A	7263	Industrial	12		Yes	Yes
93	Micro Electronics Manufacturer	630A	9483	Service	12		Yes	
94	Motive Power Machinist	410K	7231	Motive	12		Yes	
95	Motorcycle Technician	310G	7334	Motive	12	Yes	Yes	Yes
96	Mould Designer	670E	N/A	Industrial	C/Q		Yes	
97	Mould Maker	431A	7232	Industrial	12		Yes	
98	Mould or Die Finisher	277M	7232	Industrial	12		Yes	
99	Native Clothing and Crafts Artisan	296B	7342	Service	12			
100	Native Residential Construction Worker	296A	7611	Construction	12		Yes	
101	Network Cabling Specialist	631A	7245	Service	12		Yes	
102	Optics Technician (Lens and Prism Maker)	225A	3414	Industrial	12		Yes	
103	Packaging Machine Mechanic	609C	7311	Industrial	12		Yes	
104	Painter and Decorator, Commercial and Residential	404C	7294	Construction	10		Yes	Yes
105	Painter and Decorator, Industrial	404D	7294	Construction	10		Yes	
106	Parts Technician	240P	1472	Service	12		Yes	Yes
107	Pattern Maker	443A	7232	Industrial	12		Yes	
108	Plumber	306A	7251	Construction	10	Yes	Yes	Yes
109	Pool & Hot Tub/Spa Installer	237T	7441	Service	12		Yes	
110	Pool & Hot Tub/Spa Service Technician	237S	7441	Service	12		Yes	
111	Powered Lift Truck Technician	282E	7334	Motive	12		Yes	
112	Powerline Technician	434A	7244	Construction	10		Yes	Yes
113	Precast Concrete Erector	244K	N/A	Construction	10		Yes	
114	Precast Concrete Finisher	244L	7282	Construction	10		Yes	
115	Precision Metal Fabricator	200G	7261	Industrial	12		Yes	
116	Process Operator: Power	246R	9232	Industrial	12		Yes	
117	Process Operator: Food Manufacturing	246T	9232	Industrial	12		Yes	
118	Process Operator: Refinery, Chemical and Liquid Processes	246F	9232	Industrial	12		Yes	
119	Pump Systems Installer	263F	7311	Industrial	12		Yes	
120	Railway Car Technician	268R	7314	Industrial	12		Yes	
121	Relay and Instrumentation Technician	288R	7242	Industrial	12			
122	Recreation Vehicle Technician	690H	7383	Motive	12		Yes	Yes
123	Refrigeration & Air Conditioning Systems Mechanic	313A	7313	Construction	10	Yes	Yes	Yes

	Program	Code	NOC Code	Sector	Entry Grade	Compulsory Certification	ATTC Eligible	Red Seal
124	Reinforcing Rod Worker Br. 3	452A	7264	Construction	10		Yes	Yes
125	Residential Air Conditioning Systems Mechanic	313D	7313	Construction	10	Yes	Yes	
126	Restoration Mason	244H	7281	Construction	10		Yes	
127	Retail Meat Cutter	245R	6251	Service	12			
128	Roll Grinder/Turner	602H	9511	Industrial	12		Yes	
129	Roofer	449A	7291	Construction	10		Yes	Yes
130	Saddlery	219C	9452	Service	12			
131	Saw Filer/Fitter	611B	7383	Industrial	12		Yes	
132	Sheet Metal Worker	308A	7261	Construction	10	Yes	Yes	Yes
133	Ski Lift Mechanic	297A	7311	Industrial	12		Yes	
134	Small Engine Technician	435A	7335	Motive	12		Yes	
135	Special Events Coordinator	297B	N/A	Service	12			
136	Sprinkler and Fire Protection Installer	427A	7252	Construction	10		Yes	Yes
137	Steamfitter	307A	7252	Construction	10	Yes	Yes	Yes
138	Surface Blaster	278B	7372	Industrial	12		Yes	
139	Surface Mount Assembler	630B	9483	Industrial	12		Yes	
140	Terrazzo, Tile and Marble Setter	241A	7283	Construction	10		Yes	Yes
141	Thin Film Technician	225F	N/A	Industrial	12		Yes	
142	Tire Wheel and Rim Mechanic	295A	7321	Motive	12		Yes	
143	Tool and Cutter Grander	602C	9511	Industrial	12		Yes	
144	Tool and Die Maker	430A	7232	Industrial	12		Yes	Yes
145	Tool and Gauge Inspector	239B	7231	Industrial	12		Yes	
146	Tool/Tooling Maker	630T	7232	Industrial	12		Yes	
147	Tractor Trailer Commercial Driver	638A	N/A	Industrial	10		Yes	
148	Transmission Technician	310D	7321	Motive	12	Yes	Yes	
149	Truck and Coach Technician	310T	7321	Motive	12	Yes	Yes	Yes
150	Truck Trailer Service Technician	310J	7321	Motive	12	Yes	Yes	Yes
151	Turf Equipment Technician	421C	N/A	Motive	12		Yes	
152	Utility Arborist	444B	2225	Service	12			
153	Water Well Driller	605B	7373	Industrial	12		Yes	
154	Welder	456A	7265	Industrial	12		Yes	Yes
155	Wooden Board Rebuilder/Repairer	211W	7271	Service	12			

Entry Grade – Minimum education or certification required.

C/A – Certificate of Apprenticeship C/Q – Certificate of Qualification

ATTC Eligible – Trade is eligible for the Apprenticeship Training Tax Credit

Red Seal Trade – eligible for the Apprenticeship Job Creation Tax Credit & Apprenticeship Incentive Grant

Disclaimer: This information was based on data collected Mar 26, 2010 and has been drawn from sources believed to be reliable; however, the accuracy or completeness is not guaranteed. The Simcoe Muskoka Workforce Development Board does not assume any responsibility or liability in providing this data.

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For further information about apprenticeship opportunities in your area, contact the appropriate Ministry of Training, Colleges and Universities apprenticeship office.

Central District

Toronto(416) 326-5800
Pickering.....(905) 837-7721
Mississauga(905) 279-7333
Barrie.....(705) 737-1431

Western District

Hamilton.....(905) 521-7764
Brantford.....(519) 756-5197
St. Catharines(905) 704-2991
Owen Sound(519) 376-5790
London(519) 675-7788
Sarnia(519) 542-7705
Waterloo(519) 571-6009
Windsor.....(519) 973-1441
Chatham.....(519) 354-2766

Eastern District

Ottawa(613) 731-7100
Brockville.....(613) 342-5481
Cornwall(613) 938-9702
Kingston(613) 545-4338
Pembroke.....(613) 735-3911
Peterborough(705) 745-1918
Belleville(613) 968-5558

Northern District

Sault Ste. Marie.....(705) 945-6815
North Bay(705) 495-8515
Sudbury.....(705) 564-3030
Timmins.....(705) 235-1950
Thunder Bay(807) 345-8888
Kenora.....(807) 468-2879

Apprenticeship Website Addresses:

www.edu.gov.on.ca
www.youthjobs.gov.on.ca

Training Hotline: 1-888-JOBGROW
1-800-387-5656
Toronto Area(416) 326-5656



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