



THE SKILLED TRADES HANDBOOK

A Guide to the World of
Skilled Trades and Apprenticeship
in Ontario

Published by



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- International Association of Machinists & Aerospace Workers
- United Communities Credit Union
- Power Workers' Union Training Inc.
- Partners in Employment
- Steelworkers Union
- Stratford and District Labour Council



**EMPLOYMENT
ONTARIO**

WHAT IS AN APPRENTICE?

✂ Earn while you learn

apprentice/n.1 (often attrib.) a person who is learning a trade from an experienced “mentor” and by being employed in it for a period of time; learning by doing!

A certified journeyman trains the apprentices about their trade, and at the same time the apprentices go to school for classroom theory. Most exciting is the fact that apprentices are working and earning wages while they are learning the skills. Once the apprentice has completed their training and certification they become a certified Journeyman in that trade.

- 75-90% of apprenticeship training takes place on-the-job.
- 10-25% of the apprenticeship training is in the classroom
- There are over 150 apprenticeship trades in Ontario

“Once you get your certificate you can make a full journey-person’s wage. You can then pick and choose where to work.”

**– Robert Gooding,
Auto Service Technician**

✂ To become an apprentice, a person must find an employer willing to register and train them.

“Being a tradesperson is character building. You have to learn to walk before you run.”

**– Mike Dolan, Journeyman,
Millwright, Structural Welder, Plumber,
Pipefitter/Steamfitter**

✂ Contact your local Training and Apprenticeship office

Ministry of Training, Colleges and Universities – Apprenticeship Office

Owen Sound Area Office: 1400 1st Ave W, Suite 4, Owen Sound, N4K 6Z9, (519) 376-5790 1-800-838-9468

Kitchener Area Office: 4275 King St E, Suite 200, Kitchener, ON N2P 2E9, (519) 653-5758 1-866-877-0099

www.tcu.gov.on.ca

✂ How to register?

All trainees must be registered with The Ministry of Training, Colleges, and Universities (MTCU).

“There are always things to do, not the same old boring jobs all day long. It isn’t a thankless job; it’s very personally rewarding.”

– Scott Jones, Plumber

✂ Who pays?

- Employers cover about 85% of the cost of training for the apprentice, through wages and time invested into training.
- The Ontario government invests \$40 Million a year to cover the cost of Administering the apprenticeship training system—including registering employers and apprentices, developing standards, delivering the in-class training component and working with industry.

✂ What’s next?

- To be employed in certain skilled trades, workers must have a Certificate of Qualification. This certificate shows that you are qualified and have acquired all the necessary skills in a specific trade.
- To write a provincial qualification exam, applicants must have demonstrated their experience in the trade.

“It’s a great way to travel and become more employable. It is very challenging. I think of myself as a professional, just as much as a doctor or a lawyer!”

**– Bernie Walsh,
Journeyman Carpenter**

✂ How long is an apprenticeship?

Most apprenticeships take between two and five years. When you have completed all of your on-the-job and in-school training, you will be eligible to complete your apprenticeship and, in most cases, you are eligible to write the examination necessary for certification.

ONTARIO YOUTH APPRENTICESHIP PROGRAM

Would you like to start training for a trade while at the same time getting your high school credits?

Then OYAP is the perfect program for you! It gives high school students the opportunity to complete the requirements for a high school diploma and at the same time receive apprenticeship training. The student can earn registered apprenticeship hours and use those hours towards the credits required for their high school diploma.



How does it benefit you?

Students earn credits towards an OSSD – Ontario Secondary School Diploma - while hours worked on the job are applied to journey person certification. *Doors are kept open.* Students who find they are not suited to the trades can return to a regular school program after one semester with no penalty. In some instances, students may earn a wage during the on-the-job portion of the program. Students may participate in some of the regular apprenticeship training courses through OYAP.

Who is eligible?

Full-time high school students who are at least 16 years old and have completed Grade 10 can apply.

Education requirements:

Students must complete a minimum of 3 in-school credits per year. To receive an OSSD, students must still complete all compulsory credits. Students who receive co-operative education credits may be eligible to have these hours applied towards their apprenticeship.

OYAP:

The program is available to any student who has fulfilled all the requirements. Students will begin a planned, flexible program after Grade 10. You might want to participate in a 2-credit Co-op placement in an apprenticeable trade, to see if you are suitable for the trade. At the end of the placement, if your boss appreciates the work you've been doing, they might decide to keep you on. In Grade 12, if you are employed as a registered apprentice, you might spend half of your time in school and the other half in the workplace as a paid apprentice. The time spent in the workplace as an apprentice can count as credits towards your OSSD.

Apprenticeship requirements:

Students must be placed with a qualified employer and follow an on-the-job training program based on specific trade standards. They may also receive related theoretical instruction.

Your Local Contact is:

Bluewater District School Board, Bruce Grey Catholic District School Board

OYAP: P.O. Box 190, Chesley, On N0G 1L0 Tel: (519) 363-2014 Toll Free: (800) 661-7509 www.oyap.ca

Avon Maitland District School Board

62 Chalk St. North, Seaforth, On N0K 1W0 Tel: (519) 527-0111 Toll Free: (800) 592-5437 www.amdsb.ca

Huron-Perth Catholic District School Board

P.O. Box 70 87 Mill Street, Dublin, ON N0K 1E0 Tel: (519) 354-2440 www.huronperthcatholic.ca

PASSPORT TO PROSPERITY... CHECK IT OUT!



This program connects employers and students through real work experience.

Passport to Prosperity is a province-wide initiative that encourages partnerships between employers and local high schools to provide career and work experience opportunities to students.

The program is coordinated by Local Training Boards or Industry/Education Councils across the province and is supported by the Ministry of Education and Ministry of Training, Colleges & Universities.

Career exploration and real work experience can help young people make a successful transition from high school to work, apprenticeship, college or university.

Through *Passport to Prosperity*, employers can provide a range of opportunities for students, such as co-op placements, job shadowing, industry tours or OYAP placements (Ontario Youth Apprenticeship Program). Some local employers also participate in career days, classroom visits, Take Our Kids To Work™, and career fairs.

The bottom line is that you can take advantage of a variety of work and career related experiences to help you make decisions about your future.

For more information about the *Passport to Prosperity* program, contact:

Bruce Grey Georgian Triangle

Four County Labour Market Planning Board

Tel: (519) 881-2725 Toll Free: (888) 774-1468

www.planningboard.ca

info@planningboard.ca

Foundation for Education Huron Perth

Toll Free: (800) 592-5437 Ext. 239

www.foundationforeducation.ca



ARE YOU TOO COOL FOR SCHOOL? THINK AGAIN!

Do you want to know why they're called "Skilled Trades"? Because these careers require many types of skills and abilities.

Obviously, not every trade is the same - many require different abilities - but there are some similar education requirements.

First, most trades require Grade 12. And, we strongly suggest the following courses.

- Math
- Sciences
- Business
- English

Have you got what it takes?

- ✘ Mechanical aptitude
- ✘ Good hand-eye coordination
- ✘ Interest in new technologies
- ✘ Communication skills
- ✘ Analytical (problem solving) skills
- ✘ Attention to detail



GOOD GRADES – CONSIDER THE TRADES!

Now is the time to consider a career in the skilled trades. The range and focus of these careers is awesome and rewarding – and, yes – they pay well too!

Advancements in technology, materials and training have made today's workplace far different from what you may think. Today all areas of the trades utilize technology, computers, math and science. Gone are the days when someone entered the trades because they were not academically inclined – many of today's trades require strong math, science, reading and communication skills.

Each occupation requires unique skills and attracts different personality types. A career in the trades may not be for everyone – but it may just be right for you!

This guide offers you a look at the great career options in the skilled trades. Read on and discover:

- What people working in the trades say about their careers
- The steps to becoming a journeyman
- The variety of careers available
- What high school courses you'll need
- And much more!

Custom Made For Bruce Grey Huron Perth

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ABORIGINAL EARLY CHILDHOOD EDUCATOR

Sector: Services

NOC/MTCU: 4214/620B

The Deal:

An Aboriginal Early Childhood Educator is a specialist who plans, organizes, and implements activities for preschool children to encourage children in intellectual, physical, and emotional growth.

The Scene:

You will have the opportunity to teach children about the local culture, traditions, interests, and values. You would be employed by either a local child care centre or a nursery school.

The Facts:

To become an Aboriginal Early Childhood Educator you must complete a 6480 hour apprenticeship program. To be eligible for this program you must have an education minimum of Grade 12.

Also Known As:

- *Early Childhood Educator (ECE)*
- *Nursery School Teacher*
- *Day care coordinator*
- *Early Childhood Assistant*



AGRICULTURE – DAIRY HERDSPERSON

Sector: Services

NOC/MTCU: 8253/640D

The Deal:

If you love the open country, and want to get back to nature then check this out. A Dairy Herdsperson performs a variety of tasks around the farm which include planning, breeding, feeding, milking, preparing feed mixtures, treating and medicating animals. As a worker or apprentice your tasks range from operating and maintaining farm machinery to cleaning and sterilizing milking equipment.

The Scene:

As a Dairy Herdsperson don't expect light work. You will be working in a farm environment where physical strength and the safe handling of equipment, machinery, livestock and chemicals are necessary.

The Facts:

To become a qualified Dairy Herdsperson it is recommended that you complete a 5520 hour apprenticeship program. To qualify for the Apprenticeship Program you must have finished Grade 12.

Also Known As:

- *Cattle herdsperson*
- *Farm foreman/woman*
- *Farm supervisor*
- *Feedlot foreman/woman*
- *Ranch foreman/woman*

Contacts:

Dairy Farmers of Ontario
6780 Campobello Rd.,
Mississauga, ON L5N 2L8
Tel: (905) 821-8970
Website: www.milk.org

AGRICULTURAL EQUIPMENT TECHNICIAN

Sector: Motive Power

NOC/MTCU: 7312/425A

The Deal:

Working as an Agricultural Equipment Technician you will handle various tasks such as repairing, overhauling and maintaining bulldozers, tractors, combines, hay bines, ploughs and planters to name only a few. Furthermore you will be inspecting the equipment for faults and malfunctions with the use of specialized electronic equipment.

The Scene:

As an Agricultural Equipment Technician you will work both indoors and outdoors. While most technicians work a standard forty-hour work week, there is a possibility of shift work which could include weekends. Some traveling may be involved as you may have to perform tasks on site, at a farm.

The Facts:

It is recommended that you complete 6280/7000 hours of an apprenticeship program; however, prior education and work experience may cut down this time. You must be 16 years of age and completed a minimum of Grade 12. Inter-provincial Red Seal Certificate Available.

Also Known As:

- Diesel mechanic, heavy equipment
- Farm equipment mechanic
- Heavy-duty equipment technician
- Heavy equipment mechanic
- Tractor mechanic

Contacts:

Agriculture and Agri-food Canada

1341 Baseline Rd.,
Ottawa, ON K1A 0C5
Tel.: (613) 773-1000
Website: www.agr.ca

Canadian Federation of Agriculture

21 Florence St.,
Ottawa, ON K2P 0W6
Tel: (613) 236-3633
Website: www.cfa-fca.ca



AGRICULTURE – FRUIT GROWER

Sector: Services

NOC/MTCU: 8251/640F

The Deal:

As a Fruit Grower, you will plant and transplant fruit trees, grapevines and various fruit-producing plants. You will also spray, prune, fertilize and harvest the fruit as well as maintain the machinery and tools used.

The Scene:

Fruit farming is traditionally seasonal; therefore, the summer months will be busiest. Often, over the winter months, repairs are made to equipment and tools. Farming is a strenuous activity and physical fitness is an asset.

The Facts:

It will take 5520 hours to complete an apprenticeship program; however, prior education and work experience may shorten this time. For the apprenticeship program you must have completed Grade 12.

Also Known As:

- Apple grower
- Fruit farmer
- Grape grower
- Seed grower
- Vineyard manager

AGRICULTURE - SWINE HERDSPERSON

Sector: Service

NOC/MTCU: 8253/640S

The Deal:

An Agriculture - Swine Herdsperson performs herd health and comfort maintenance; breeding/gestation/birthing procedures of swines; manure management procedures; and manages the nursery stock.

The Scene:

You will also be responsible for operating and maintaining farm systems, vehicles, equipment, and farm mechanical equipment.

The Facts:

To become an Agriculture - Swine Herdsperson you are required to complete a 5520 hour apprenticeship program. You must have a minimum education of Grade 12.

Also Known As:

- *Farm foreman/woman*
- *Farm supervisor*
- *Feedlot foreman/woman*
- *Hog operation supervisor*



AIRCRAFT MAINTENANCE MECHANIC

Sector: Industrial

NOC/MTCU: 7315/610C

The Deal:

This trade involves adjusting, repairing and overhauling instruments, electrical or avionics systems on aircraft.

The Scene:

As an Aircraft Maintenance Engineer, you will work the standard forty-hour work week. In this trade one must have good diagnostic skills since although many aircraft systems are similar, unique problems can arise.

The Facts:

It takes about 4 years (7200 hours) to complete an apprenticeship program in this trade; however, previous education and work experience may shorten this time. You must have completed Grade 12.

Also Known As:

- *Aircraft gas turbine engine technician*
- *Aircraft maintenance engineer AME (except avionics)*
- *Aircraft systems inspector*
- *Aviation mechanical component shop technician*
- *Hydraulic mechanic, aircraft*

ALIGNMENT & BRAKES TECHNICIAN

Sector: Motive Power

NOC/MTCU: 7321/310E

The Deal:

As an Alignment and Brakes Technician, you would diagnose and repair braking and steering systems. This can include changing brake pads, turning rotors, lubricating joints, repairing faulty steering mechanisms and alignment of wheels and topping up brake and steering fluids. Problem solving skills are critical as well as an eye for detail.

Also Known As:

- *Automobile mechanic*
- *Automotive service technician*
- *Bus mechanic*
- *Mechanical upgrader/repairer - motor vehicle*
- *Truck and transport mechanic*

The Scene:

A Service Technician normally works a standard forty-hour week. You should be physically fit as some heavy lifting is involved.

The Facts:

This is a Restricted Certified Trade so you must be registered as an apprentice to work as an Alignment and Brakes Technician. The apprenticeship takes about 5400/5880 hours including 720 hours of in-class training; however, prior education and experience may shorten the time needed to complete all the competencies. An OYAP student must be 16 years old and have completed Grade 10. Otherwise apprentice applicants must have their Grade 12 or equivalent.



APPLIANCE SERVICE TECHNICIAN

Sector: Service

NOC/MTCU: 7332/445A

The Deal:

As an Appliance Service Technician you would be installing and repairing various domestic appliances like washers and refrigerators, found in homes.

Also Known As:

- *Appliance repairer apprentice*
- *Appliance service technician*
- *Appliance servicer*
- *Service technician - electrical appliances*

The Scene:

Work is performed indoors at numerous onsite areas.

The Facts:

It will take 4 to 5 years (5280/6000 hrs) to complete this Apprenticeship program. To be eligible, you must be 16 years of age and completed Grade 12. Inter-provincial Red Seal Certificate available.

ARBORIST/UTILITY ARBORIST

Sector: Service

NOC/MTCU: 2225/444A&B

The Deal:

As an Arborist you will draw sketches and build models of landscape designs for gardens, parks and golf courses. You will also be responsible for cutting, pruning and maintaining all varieties of trees, shrubs and other outdoor plants. Other job-related tasks involve diagnosing problems and diseases for various shrubs, trees and grasses and then applying treatment.

Also Known As:

- *Landscape Architectural Technician*
- *Landscape Gardener*
- *Landscape Technician*
- *Lawn Care Specialist*
- *Tree Service Technician*

The Scene:

Arborists usually work a forty-hour work week and mainly in the outdoors. Many Arborists run their own businesses while others work for large landscaping companies or in specialty areas such as municipalities and hydro companies to maintain publicly-owned trees and shrubs.

The Facts:

To be an Arborist it will take 5340/6000 hours to complete an apprenticeship program. To be eligible for an apprenticeship you must have a minimum of Grade 12. Courses in mathematics and biology are an asset.



ARCHITECTURAL GLASS AND METAL TECHNICIAN

Sector: Construction

NOC/MTCU: 7292/424A

The Deal:

These technicians work with a variety of glass and sometimes plastics. They cut, fit and install of glass in metal and wooden frames. The ability to interpret design drawings, manufacturer's instructions and installation diagrams will also be required.

Also Known As:

- *Glazier and Metal Mechanic*
- *Glazier Apprentice*
- *Plate Glass Installer*
- *Stained Glass Glazier*
- *Structural Glass Glazier*

The Scene:

Architectural Glass/Metal Technicians usually work 40 hours per week. Work is performed both indoors and outdoors.

The Facts:

You must complete an apprenticeship of 8,000 hours of on-the-job and in-school training, to write an examination to obtain your Certificate of Qualification. You must have a minimum of Grade 10. Inter-provincial Red Seal Certificate available (Glazier).

Contacts:

Architectural Glass & Metal Contractors Association

620 Barnet Blvd.
Renfrew, ON K7V 3Z4
Tel: (613) 432-5837
Website: www.ottawavalleyglass.com

AUTO-BODY & COLLISION DAMAGE REPAIRER-BR.1 / AUTO-BODY REPAIRER-BR.2

Sector: Motive Power

NOC/MTCU: 7322/310B&Q

The Deal:

Can't get enough of cars? Is restoring a wreck to mint condition your idea of a dream job? Become an Auto Body Repairer and make it a reality. No two damaged vehicles are alike, so there is a new problem to solve every time. These range from repairing, reshaping and refitting body panels, fenders, hoods, bumpers and other exterior parts of motor vehicles. This can involve welding, repairing and replacing wiring harnesses, straightening and aligning frames and unibody assemblies to name just a few.

The Scene:

Work is performed indoors and the work week is a standard 40 hours. The work can be physically demanding and you are required to handle hazardous chemicals.

The Facts:

This is a restricted trade and you must complete a 5520-6000 hour (Br.2) or 7280-8000 hour (Br.1) apprenticeship program. To qualify for the program, you must be at least 16 years of age and have a minimum Grade 10 education, although some employers require Grade 12. Inter-provincial Red Seal Certificate available.

Also Known As:

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

Contacts:

Automotive Industries Association of Canada

1272 Wellington
Ottawa, ON K1Y 3A7
Tel: (800) 808-2920
Website: www.aiacanada.com



AUTOMOTIVE GLASS TECHNICIAN

Sector: Motive Power

NOC/MTCU: 7321/274L

The Deal:

These technicians repair, remove, and install glass and windshields on automobiles, trucks, buses, and other vehicles. They are quite knowledgeable about all characteristics of glass and sealants, and know how to track down water or air leaks.

The Scene:

Work is performed indoors.

The Facts:

It will take about 2 years (3760 hours), which includes in-class instruction, to complete this apprenticeship program. To be eligible, you must be 16 years of age and completed Grade 12.

Also Known As:

- *Automobile mechanic*
- *Automotive service technician*
- *Automotive glass technician*
- *Mechanical upgrader/repairer - motor vehicle*
- *Truck and transport mechanic*

AUTOMOTIVE PAINTER

Sector: Motive Power

NOC/MTCU: 7322/410N

The Deal:

You can have a variety of jobs as an Automotive Painter. For instance, you could be performing everything from refinishing painted surfaces on car, truck, bus and trailer bodies to coating the aluminum mouldings, mixing paint and matching colours. Automotive painters also tend and operate machines or use brushes and spray equipment to apply paint, enamel, lacquer or other nonmetallic protective and decorative coatings to automobiles.

The Scene:

As an Automotive Painter you must have a good eye for detail, good colour vision, good physical stamina and an artistic aptitude. Paint fumes are a part of the job, so good ventilation and wearing a mask are essential. Most shops have special fume-exhaust systems.

The Facts:

An Automotive Painter requires the completion of 4560 hours for this apprenticeship program. To be able to participate you must have a minimum Grade 12. Inter-provincial Red Seal Certificate available.

Also Known As:

- *Automotive painter - motor vehicle repair*
- *Automotive painter apprentice*
- *Painter - motor vehicle repair*
- *Metal finisher - motor vehicle*

Contacts:

Automotive Industries Association of Canada

1272 Wellington
Ottawa, ON K1Y 3A7
Tel: (800) 808-2920
Website: www.aiacanada.com



AUTOMOTIVE SERVICE/ELECTRONIC ACCESSORY TECHNICIAN

Sector: Motive Power

NOC/MTCU: 7321/310K&S

The Deal:

This trade would include inspecting, diagnosing, repairing, and servicing the mechanical, electrical and electronic systems and components of cars, buses, and trucks.

The Scene:

As an Automotive Service/Electronic Accessory Technician you will usually work a standard 40 hour week and have a great variety of problems to solve and tasks to perform. New entrants may have to invest in their own tools.

The Facts:

To become an Automotive Service Technician you are required to complete 6500 hours. For an Electronic Accessory Technician you are required to complete 3000 hours for an apprenticeship program. OYAP and Coop programs in your school can come in handy. You must be at least 16 years of age to participate in the program and must have a minimum of Grade 12. Inter-provincial Red Seal Certificate available for Automotive Service Technician.

Also Known As:

- *Automobile mechanic*
- *Transmission mechanic*
- *Tune-up specialist, motor vehicle*

Contacts:

Canadian Automotive Repair and Service (CARS)

57 Auriga Dr.,
Ottawa, ON K2E 8B2
Tel: (613) 798-0500
Website: www.cars-council.ca

Canadian Auto Workers

205 Placer Court
Toronto, ON M2H 3H9
Tel: (416) 497-4110
(800) 268-5763
Website: www.caw.ca

STEVE COOK, AUTOMOTIVE SERVICE TECHNICIAN

Quote: “In my trade, I do everything from changing light bulbs to complete routine maintenance, brake, front end, electrical diagnosis and any other repair you could imagine.”



Things to know

What is the most interesting aspect of your trade?

It's never the same thing over again. Although it sounds like repairing cars could be repetitive it's really not. With all the different vehicles and problems, there are almost never two repairs alike. Every time you diagnose a problem you learn about another system and how it operates.

How did you become interested in your profession? Who was most influential in helping you decide on this profession?

I became interested in automotive repair when I was a kid. I always enjoyed building and fixing things. My dad and grandfather were always getting me to help and I always had fun seeing how things worked.

What are some of the rewards and benefits of your trade?

There are many rewards to being an automotive technician. You can go home knowing you've helped someone with their problem. You get to train young apprentices that you work with.

What education or training did you need for this position? How many apprenticeship hours and years were required?

I always took automotive courses in high school. When I graduated I did a postsecondary automotive course at college as an introduction for training. After the first course, there are two more courses to attend while filling the 9000 hours required in completing the apprenticeship, which takes approximately 5 years.

Do you have any specialized training or do any specialized work above and beyond your regular trade qualifications?

I also received an ozone depletion card so that I could handle air conditioning refrigerants. I am interested in old cars and race cars so I am always working with one or the other.

How did you find your first apprenticeship position?

My first apprenticeship position was where I did my co-op placement in high school.

Do you hold any other certifications or licenses?

I have an ozone depletion card to work with air conditioning. I would like to get a welding certificate and a truck and coach license in the future.

Do you have any tips or suggestions for young people considering (or preparing for) a career in your trade?

Always make sure that the employer can see you are interested and enthusiastic about what you are doing. I've seen a lot of people who went into the trade but don't want to do any work to get there. They give up when it gets hard and don't want to go the extra mile that is sometimes required in this highly competitive trade.

BAKER/PATISSIER

Sector: Service

NOC/MTCU: 6252/423A&C

The Deal:

Bakers prepare bread, rolls, muffins, pies, and cakes for sale in bakeries, restaurants. Creativity and the love of food are assets.

The Scene:

As a Baker you will be operating machinery, hot ovens and hot baked goods so you must pay close attention to safety.

The Facts:

To become a qualified Baker it is recommended that you complete a 5280 hour apprenticeship program. With additional training, Bakers can transfer skills to related occupations such as cook, cake decorator, baking instructor or supply company salesperson. Patisserie: 6130 hours which includes 870 hours of in-class training, apprentices must write a Certificate of Qualification exam to become journeypersons.

To participate in the apprenticeship program you must be at least 16 years of age, and must have a minimum of Grade 12. Inter-provincial Red Seal Certificate available (Patisserie).

Also Known As:

- Baker apprentice
- Bakery supervisor
- Head baker

Contacts:

Canadian Restaurant and Foodservices Association

316 Bloor St. W.
Toronto, ON M5S 1W5
Tel: (416) 923-8416
(800) 387-5649
Website: www.crfa.ca

Baking Association of Canada

7895 Tranmere Dr., Ste. 202
Mississauga, ON L5S 1V9
Tel: (905) 405-0288
(888) 674-2253
Website: www.baking.ca



BEARINGS MECHANIC

Sector: Industrial

NOC/MTCU: 7321/615A

The Deal:

This job involves the disassemble, inspection, repair, replacement, and cleaning of bearings and seals of motor vehicles, such as cars, trucks, buses, motor homes, and motorcycles—and also bicycles. As a Bearings Mechanic, you might work in a manufacturing setting, especially in primary steel production that involves setting up and operating lathes, drills, grinders, saws, and hydraulic presses.

The Scene:

Most work is performed indoors and may involve dust and dirt.

The Facts:

It will take 5760 hours, which includes 240 hours of in-class training to complete the apprenticeship program. To be eligible, you must be 16 years of age and completed Grade 12.

Also Known As:

- Automobile mechanic
- Automotive service technician
- Truck and transport mechanic
- Truck-trailer repairer

BLACKSMITH

Sector: Industrial

NOC/MTCU: 7266/600P

The Deal:

Artistic type of blacksmithing involves the designing and building of ironwork. Blacksmiths can also specialize as farriers, who make horseshoes for farm and race horses.

Also Known As:

- *Smith*
- *Die setter*
- *Hammersmith*

The Scene:

Most work is performed indoors.

The Facts:

It will take 5280 hours, which includes 720 hours of in-class instruction, to complete this apprenticeship program. To be eligible, you must be 16 years of age and completed of Grade 12.



BOILERMAKER

Sector: Construction

NOC/MTCU: 7262/428A

The Deal:

Boilermakers earn their living by building and maintaining very large boilers and pressure tanks in power stations, refineries, and chemical plants to name a few. When licensed, there is a world of specializations that you can pursue.

Also Known As:

- *Boiler Fitter*
- *Boiler Installer*
- *Construction/Industrial Boilermaker*
- *Marine Boilermaker*
- *Pressure Vessel Fabricator*

The Scene:

This work can require some travel to different work sites (both indoors and outdoors). The work can involve heavy lifting, so good physical fitness is required. Safety is a priority since you will be operating machinery and handling dangerous materials.

The Facts:

If you're considering a career as a Boilermaker, it is recommended that you complete a 3 to 4 year (4yr x 1650) apprenticeship program or a combination of four-years of work in the trade and some high school or college courses in boiler making. You must be at least 16 years of age with at least a Grade 10 education. Drafting, mathematics, geometry and blueprint reading are considered great assets and provide a solid foundation for apprenticeship in this trade. The **Construction Boilermaker's** apprenticeship program involves 6,600 hours (3.5 to 4years) of on-site training including three in school sessions of eight weeks each. Once the training is complete, the apprentice must write and successfully pass a certification examination. Inter-provincial Red Seal Certificate available.

Contacts:

International Brotherhood of Boilermakers

Local 128

7 Queen Elizabeth Boulevard

Etobicoke, ON M8Z 1L9

Tel: (416) 251-6585

Website: www.boilermakers.org

Boilermaker Contractors Association of Canada

165 Regional 20 W

Fonthill, ON LOS 1E0

Tel: (905) 892-2244

Website: www.bcacanada.ca

BRICK & STONE MASON

Sector: Construction

NOC/MTCU: 7281/401A

The Deal:

This trade is definitely an art. Stone Masons intricately mould and shape stones to form beautiful patterns. Your job as a Bricklayer would consist of laying bricks, concrete blocks, stone and other similar materials to construct and repair walls. There is also an element of creative freedom. You would also construct, erect, install and repair walls, arches, paving, floors, fireplaces, chimneys, smokestacks and line kilns.

The Scene:

You would be working in a variety of environments which include outdoors, indoors, on scaffolding which requires feeling comfortable with heights, and good physical fitness. Good math skills and hand/eye coordination for handling tools are essential.

The Facts:

To become a Brick and Stone Mason it is recommended that you complete a 4 year (4 X 1400) apprenticeship program. To be eligible for the apprenticeship program you must be at least 16 years of age, and you must have a minimum Grade 8 to register. Inter-provincial Red Seal Certificate available.

Also Known As:

- *Bricklayer*
- *Mason*
- *Refractory Bricklayer*
- *Stonemason*

Contacts:

Masonry Industry Employers Council of Ontario

360 Superior Blvd.
Mississauga, ON L5T 2N7
Tel: (905) 564-6622

Ontario Masonry Training Centre

350 Superior Blvd.
Mississauga, ON L5T 2N7
Tel: (905) 795-0770
www.canadamasonrycentre.com

Journeyman Stonecutters Association of North America

Chicago, USA
Tel: (847) 568-1188
www.stonecarver.com/union.html



CABINET MAKER

Sector: Industrial

NOC/MTCU: 7272/438A

The Deal:

If you enjoy working with your hands and with tools and machinery, then this occupation is for you. As a cabinetmaker you would be constructing and repairing wooden cabinets, furniture, fixtures and other related products.

The Scene:

You would be working indoors. Good math skills and hand/eye coordination for handling tools are essential.

The Facts:

It will take approximately 8,000 hours, which includes 720 hours of in-class instruction, to complete this apprenticeship program. You must have completed Grade 12. You must also successfully complete the required examinations and hours of employment in order to be awarded a Journeyman certificate. Inter-provincial Red Seal Certificate available.

Also Known As:

- *Custom Wood Furniture Maker*
- *Furniture Cabinetmaker*
- *Patternmaker*

Contacts:

United Steel Workers

3920 Norland Avenue
Burnaby, BC V5G 4K7
Tel: (604) 683-1117

CANDICE BROWN, BRICK AND STONE MASON



Quote: Some of the responsibilities of my trade consists of visiting rock quarries to source out the stone, cutting and laying stone with appropriate mortar and bond pattern, creating stone designs, estimating the costs of projects and how much material is needed, ordering materials and setting up jobs. I also spend time working with the clients, contractors and other trades people.

Things to know

What do you find the most rewarding or interesting about your trade?

Because stone is a natural material, each one is different. The most interesting part of being a stonemason is creating the most attractive and structural pattern for the type of stone that has been chosen for the project.

What influenced you to choose this career?

After reading an article in the Ottawa citizen about the Algonquin College's Stone Masonry program, I decided to make a career change.

What are some of the rewards and challenges of your trade?

The biggest reward in this trade is being able to create a part of our 'built' environment using natural materials.

What education or training did you need for this trade?

Part of the education I needed for this trade was to complete a two-year diploma program at Algonquin College's Center for Heritage Trades. I have never stopped learning from the masons who have many years and types of experiences.

Do you need specialized skills above and beyond your regular trade qualifications?

I completed a one-year certificate program in Residential Design at college. I have taken specialty restoration workshops held in the United States. I also attend Construct Canada workshops to learn about new building materials and practices.

How did you find your first apprenticeship position?

I was a founding member of Traditional Trades Workers Co-op, where I had the opportunity to work with skilled masons.

Any tips for young people considering this trade?

My advice for young people is to be prepared to work very hard to achieve your goals and to recognize your limitations. You should always keep safety as a high priority.

CARPENTER (GENERAL)

Sector: Construction

NOC/MTCU: 7271/403A

The Deal:

As a Carpenter you would use hand and power tools. You would be performing a variety of jobs that would include millwork and joinery, erecting foundations, framing and finishing, installing doors and windows, building stairs, counters and cupboards; laying flooring, erecting scaffolding; installing suspended ceilings, constructing concrete framework and welding. You may also be responsible for estimates, calculations and layouts. General

The Scene:

Carpenters may work in the “roughing” or “finishing” aspect of erecting new buildings or renovating existing structures. As a Carpenter, you will find yourself at a variety of work sites. You will work both indoors and out, on new construction or renovating existing dwellings.

The Facts:

You can get a head start by studying math and enrolling in shop at school. Classes in industrial arts and mechanical drawing will help you decide whether or not you have an aptitude for the trade. To become a Carpenter, it is recommended that you complete a 7200-hour apprenticeship program. To be eligible to participate in the apprenticeship program you must be at least 16 years of age, and must have a minimum Grade 10 education. Inter-provincial Red Seal Certificate available.

Also Known As:

- *Finish Carpenter*
- *Journey person Carpenter*
- *Maintenance Carpenter*
- *Renovation Carpenter*
- *Rough Carpenter*

Contacts:

Carpenters’ District Council of Ontario
222 Rowntree Dairy Rd.
Woodbridge, ON L4L 9T2
Tel: (905) 238-3063
Website: www.carpentersdc.com

Ontario Carpenter Affiliate Locals Local 2222

150 Cambridge Street
Goderich, ON N7A 2Y7
Tel: (519) 524-7674



CEMENT FINISHER

Sector: Construction

NOC/MTCU: 7282/244G

The Deal:

Cement Finishers finish and repair concrete flooring, sidewalks and patios. They also expose and finish aggregate in pre-cast and architectural concrete as well as install various fixtures such as anchor bolts, steel plates and door sills. After finishing your apprenticeship, you may become a foreperson, supervisor or an inspector.

The Scene:

Work is performed both indoors and outdoors and requires good physical fitness. You can expect to travel to various locations where work is offered with the possibility of shift work, averaging between 35 to 40 hours a week.

The Facts:

To become a Cement Finisher, you must complete a 4500 hour apprenticeship program. To be eligible for the program, you must be 16 years of age and have completed Grade 10. Inter-provincial Red Seal Certificate available.

Also Known As:

- *Cement Finisher Apprentice*
- *Cement Mason*
- *Concrete Mason*
- *Precast Concrete Finisher*

JASON GIBSON, TIMBER FRAMER

Quote: A lot of my trade involves using both traditional and modern techniques to cut mortise and tenon joinery for timber framed buildings, joinery layout, shop drawings and roof geometry. As a business owner, I regularly meet with clients to provide pricing estimates and building designs and then organize scheduling of the work and invoicing.



Things to know

What do you find the most interesting about your trade?

An interesting aspect is the history of the trade. The most exciting aspect is 'raising' day. This is the day that all the pre-assembled bents, which have been worked on for a long time, are lifted with a crane - or by hand - to complete the frame.

What influenced you to choose this career?

I have always enjoyed building and working with my hands. As I grew older, it became very important to me to be able to build with natural materials which have as little impact on the environment as possible.

What are some of the rewards and challenges of your trade?

I feel some of the best rewards of this trade are the constant challenges, the little amount of politics and the ability to work outdoors.

What education or training did you need for this trade?

I completed a two-year diploma program at a College in Heritage Carpentry. My apprenticeship was 7200 hours and took approximately 4 years to complete.

Do you need specialized skills above and beyond your regular trade qualifications?

I continue to educate myself through workshops and conferences put on twice a year by the Timber Framers Guild. I also have my carpentry license and a certificate in rigging and fall protection.

How did you find your first apprenticeship position?

After carpentry school I began to work for a local timber framer.

Any tips for young people considering this trade?

My advice is to find work for a good company with high standards of safety and quality.

Are there any other experiences that you have gained from your career?

One thing I have gained from my career is being self employed. There are some advantages and disadvantages of being self employed. Some of the things you face being self employed are: dealing with the many governments; overhead; employee management; administration; workload; the stress level and liability. The biggest benefit is seeing the finished frame come together.

CEMENT MASONS

Sector: Construction

NOC/MTCU: 7282/419A

The Deal:

Cement Masons work with wet concrete, smoothing it in place using hand tools, such as trowels, or machine-driven vibrators to pack the concrete in place. They also apply curing agents (chemicals) to the still-wet surfaces. Repairs are also performed by patching damaged concrete and replacing hardened concrete structures.

Also Known As:

- *Cement Finisher*
- *Concrete Mason*
- *Precast Concrete Finisher*

The Scene:

Work can be inside or outside in any kind of weather. It requires squatting and bending and a great deal of the workday is spent kneeling.

The Facts:

It will take 6000 hours, which includes 720 hours of in-school training, to complete this apprenticeship program. To be eligible, you must be 16 years of age and completed of Grade 8.



CHEF

Sector: Service

NOC/MTCU: 6241/526C

The Deal:

This trade involves working with all types of food, managing a menu and being creative. A chef is responsible for everything that happens within the kitchen.

Also Known As:

- *Chef de cuisine*
- *Chef de partie*
- *Saucier*
- *Executive sous-chef*

The Scene:

Work is performed indoors.

The Facts:

It will take approximately 1 year (2260 hours) to complete this Apprenticeship program. To be eligible you must be 16 years of age and completed Grade 12. Cook Inter-provincial Certificate of Qualification plus 1 year work experience.

STEVEN NICHOLSON, CHEF

Quote: Ultimately, I am responsible for maintaining high quality standards for all food and beverage outlets for two restaurants, a lounge, room service for a hotel, and all banquet functions in order to assure complete guest satisfaction. Part of my role is to be responsible for budgeting for food and labour costs, menu creation, staff scheduling, staff training, food purchasing and safe storage of all food related products.



Things to know

What do you find the most rewarding or interesting about your trade?

I would say the most interesting aspect of my trade is the ability to travel throughout the province, country or the world, should I choose to, as there are never-ending opportunities for a well trained Chef.

What influenced you to choose this career?

I have always enjoyed cooking, even as a young boy. My first job was as a dishwasher in a fine dining restaurant where I worked hard to prove myself. The chef at the time, a Swiss gentleman, was impressed with my work ethic and was very influential in paving the way for my apprenticeship.

What are some of the rewards and challenges of your trade?

One reward of my trade is that certified Chefs and Cooks are always in high demand. It has never been difficult for me to find good employment. Another reward is that I have the chance to pass on my years of experience and knowledge to young students and apprentices.

What education or training did you need for this trade?

To receive my Red Seal Cook's Certificate, I took the basic and advanced cook's course at George Brown College in Toronto. It required 6000 hours of apprenticeship. However, to achieve the Chef's position, I worked for several more years under European trained Chefs to gain the experience and knowledge required to operate a successful kitchen.

Do you need specialized skills above and beyond your regular trade qualifications?

I have had some training in competition work and limited experience with ice and tallow sculpturing.

How did you find your first apprenticeship position?

My first apprenticeship kind of found me. At the age of 15, my first job was as a dishwasher where the Chef was impressed with my work ethic and offered me an opportunity for apprenticeship.

Any tips for young people considering this trade?

Having been involved with the placement training of OYAP students, I think this is an excellent program for anyone still in high school interested in this profession. It offers you a chance to look at what the trade is really like, gives you a chance to see if it is truly what you want to do, and gives you a good jump on your apprenticeship. But most importantly: work hard!

Are there any other experiences that you have gained from your career?

I absolutely love teaching and training young students and apprentices. I find it to be very satisfying and rewarding and am glad I get the chance to give back to my profession.

CHILD & YOUTH WORKER

Sector: Service

NOC/MTCU: 4212/620A

The Deal:

As a Child and Youth Worker your job would consist of encouraging change in children and youth who are experiencing a range of learning, social, emotional, or behavioural challenges in their lives. You will teach various life skills, provide counselling and most importantly present a positive and enthusiastic role model.

The Scene:

As a Child and Youth Worker you would be working in schools, hospitals, in residential, institutional, or community based settings. This job requires a lot of patience and someone who finds satisfaction in helping others.

The Facts:

To become a Child and Youth Worker you are required to complete a 6240 hour apprenticeship program. To qualify for the apprenticeship program you must have a minimum of Grade 12.

Also Known As:

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

Contacts:

Canadian Association of Family Resource Programs

707 - 331 Cooper St.

Ottawa ON K2P 0G5

Tel: (613) 237-7667

(866) 637-7226

Website: www.frp.ca



CNC PROGRAMMER

Sector: Industrial

NOC/MTCU: 2233/670C

The Deal:

To become a CNC programmer will require extensive knowledge of machining. You should possess good organizational/planning, blueprint reading, and strong math and computer skills.

The Scene:

Work is performed indoors in an office or on the shop floor.

The Facts:

To become a CNC Programmer will take 2 years (24 months).

Also Known As:

- *Industrial engineering technician*
- *Industrial engineering technologist*
- *Manufacturing technician*
- *Manufacturing technologist*

COMPOSITE STRUCTURE TECHNICIANS

Sector: Industrial

NOC/MTCU: 7315/267G

The Deal:

These technicians perform all the functions in the building, repairing, and replacing of aircraft structural components. They have expertise in and understanding of aircraft structural repairs established by aircraft manufacturers and outlined in maintenance and structural repair manuals.

The Scene:

Work is performed indoors.

The Facts:

This apprenticeship program takes about 2 - 3 years (5700 hours). To be eligible, you must be 16 years of age and completed of Grade 12 (senior credits in Mathematics, Science and English are recommended).

Also Known As:

- Aircraft structural repair technician
- Aviation mechanical component shop technician
- Certified aircraft technician
- Hydraulic mechanic, aircraft
- Inspector, repair and overhaul



CONCRETE PUMP OPERATOR

Sector: Construction

NOC/MTCU: 7611/637C

The Deal:

As a Concrete Pump Operator you would be responsible for all aspects involving ready mix concrete – from directing the placement through a pump at job sites, setting up delivery systems, monitoring the movement to locations where it is poured, to resolving various issues as they arise. Strong problem solving skills will be needed. A DZ license is required.

The Scene:

Work is performed outdoors at various construction site locations and in all types of weather. Being safety conscious is very important in this trade.

The Facts:

The apprenticeship for Concrete Pump Operator is a total of 3000 hours. To be eligible you must have completed Grade 12. Grade 12 English and Math would be beneficial, as well as a co-op or OYAP component in a related field.

Also Known As:

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

CONSTRUCTION CRAFT WORKER

Sector: Construction

NOC/MTCU: 7611/450A

The Deal:

A Construction Craft Worker is involved in the preparation, clean-up, material handling, excavation, backfill/compaction and dismantling on or around buildings, structures or premises.

The Scene:

Prospective apprentices and sponsors for this trade can be found at construction sites across the province, major construction firms, and any place construction work is being done.

The Facts:

To become a Construction Craft Worker you are required to complete a 2,400 hrs (approx. 1 yr & 4 months) apprenticeship program. This includes 480 hrs of in-school training. To be eligible for the program you must have a minimum Grade 10, although some employers may require Grade 12. Inter-provincial Red Seal Certificate available.

Also Known As:

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



COOK

Sector: Service

NOC/MTCU: 6242/415A&B

The Deal:

Apprentices in this trade are encouraged to travel and gain their skills by learning different techniques from other cultures. The preparation of meals and individual dishes requires creativity and expertise. Cooks create menus and make estimates, so math skills are an asset.

The Scene:

As a Cook you would be working with food and preparing it under time constraints. You may work days, evenings, weekends, and holidays. Stamina is an asset since the work is often done under pressure around hot appliances, sharp knives, machinery and the space is crowded. A Cook is responsible for the safety and sanitation of the kitchen.

The Facts:

For a **Cook-Assistant Br 1** you must complete 2640 hours and must have a minimum of Grade 10. For a **Cook-Br 2** you must complete 5280 hours and have a minimum of Grade 12. Inter-provincial Red Seal Certificate available (Cook Br2).

Also Known As:

- Dietary cook
- First cook
- Grill cook
- Journeyman/woman cook
- Licensed cook
- Short order cook

Contacts:

Canadian Culinary Federation

29 Foulis Crescent
Ottawa, ON K2L 4H2
Tel: (613) 836-0268
Website: www.cfcc.ca

Canadian Restaurant and Food Services Association

316 Bloor St. West
Toronto, ON M5S 1W5
Tel: (416) 923-8416
(800) 387-5649
Website: www.crfa.ca

DEVELOPMENTAL SERVICES WORKER

Sector: Service

NOC/MTCU: 4212/620D

The Deal:

If you enjoy helping people reach their full potential then this is the job for you. As a Developmental Service Worker you will be supporting persons who have a developmental disability. You will be assisting in enhancing their capacity to function in society.

The Scene:

A developmental service worker may work in a variety of settings, from schools to nursing homes.

The Facts:

To become a Developmental Services Worker you must complete a 3720 hour apprenticeship program. You must have completed Grade 12.

Also Known As:

- Addictions worker
- Rehabilitation worker
- Life skills instructor
- Mental health worker
- Native outreach worker



DIE DESIGNER

Sector: Industrial

NOC/MTCU: 7232/670D

The Deal:

A Die Designer develops plans for single stage or progressive stage dies for stamping, forming, forging or extrusion presses. Ability to read blueprints of products and knowledge of press characteristics/process limitations are vital.

The Scene:

Work is usually performed indoors in an office type or industrial setting.

The Facts:

To become a Die Designer you must complete a 24 month apprenticeship program and have completed Grade 12. Strong Math skills are recommended.

Also Known As:

- Die finisher/maker
- Jig maker
- Mould maker-metal/plastics processing
- Metal patternmaker
- Tool and die maker

DRAFTSPERSON MECHANICAL, PLASTIC MOULD DESIGN OR TOOL & DIE DESIGN

Sector: Industrial

NOC/MTCU: 2253/614A/B/C

The Deal:

As a Draftsperson, you will develop and prepare accurate engineering drawings from sketches and calculations. To prepare such drawings you will use computers and computer-aided designs.

The Scene:

As a Draftsperson, you will work in an office spending most of your time at a computer. Some of the drawbacks may be eye strain or hand and wrist problems as a result of working on the computers for long periods of time. It is important that you are well organized and that your drawings are neat.

The Facts:

To become a Draftsperson, it will take 7400 hours to complete an apprenticeship program. Prior education and work experience may shorten this time. For this apprenticeship program, you must have completed Grade 12.

Also Known As:

- *Design & drafting technologist*
- *Drafting technician/ technologist*
- *Electromechanical draftsperson*
- *Engineering design & drafting technologist*



DRYWALL ACOUSTICS & LATHER APPLICATOR, PLASTERER & FINISHER

Sector: Construction

NOC/MTCU: 7284/451A/453A

The Deal:

In this trade you would be installing and finishing drywall sheets and various types of wall and ceiling systems, both indoors and outdoors, in the residential and commercial sectors of the construction industry.

The Scene:

The work is varied but can be somewhat cyclical and seasonal. Physical fitness is a must since there is heavy lifting and standing during the work day.

The Facts:

For this trade you must complete a 5400 hour apprenticeship program. To be eligible for the apprenticeship you must be at least 16 years of age, and you must have a minimum Grade 10. Inter-provincial Red Seal Certificate available.

Also Known As:

- *Acoustical ceiling installer*
- *Drywall taper*
- *Interior systems mechanic*
- *Sheetrock applicator*
- *Wood lather*

Contacts:

Drywall, Acoustics, Lathers and Insulators Local 675
222 Rowntree Dairy Rd.
Woodbridge, ON L4L 9T2
Tel: (905) 652-4140

EARLY CHILDHOOD EDUCATOR

Sector: Service

NOC/MTCU: 4214/620C

The Deal:

An Early Childhood Educator plans and leads age-appropriate programs for children that facilitate physical, social, emotional, and cognitive growth.

The Scene:

Lots of hours having fun inspiring children to grow. You would work in child-care centres or facilities, and in pre-school sections of hospitals and schools.

The Facts:

To become an Early Childhood Educator you must complete a 5280 hour apprenticeship program. To be eligible for this program you must have completed Grade 12. Courses in English (college preparatory) and Literacy Skills would be an asset.

Also Known As:

- *Aboriginal Early Childhood Educator*
- *Nursery School Teacher*
- *Day care coordinator*
- *Early Childhood Assistant*

Contacts:

College of Early Childhood Education

438 University Avenue, Suite 1900

Toronto, ON M5G 2K8

Tel: (416) 961-8558 or

(888) 961-8558

Website: www.collegeofece.on.ca



EARLY CHILDHOOD EDUCATORS-INCLUSION PRACTICES

Sector: Service

NOC/MTCU: 4214/620G

The Deal:

If you enjoy working in a hectic, noisy environment, albeit bright and cheerful, then this career is for you. Here you would develop a professional practice, screen children for exceptionalities (special needs children may have that require extra support), and create an environment that enhances play and social interaction.

The Scene:

You would be working both indoors and outdoors.

The Facts:

This apprenticeship program takes about 2 years (2640 hours), which includes 180 hours of in-class training. To register for this apprenticeship, an individual must have successfully completed a Certificate of Apprenticeship for Early Childhood Educator or Aboriginal Early Childhood Educator; or an Early Childhood Education diploma or equivalent, recognized through the Ministry of Training, Colleges & Universities, plus one year on-the-job experience, you must be 16 years of age and completed of Grade 12 as well.

Also Known As:

- *Aboriginal Early Childhood Educator*
- *Nursery School Teacher*
- *Day care coordinator*
- *Early Childhood Assistant*

EDUCATIONAL ASSISTANT

Sector: Service

NOC/MTCU: 4214/620E

The Deal:

An Education Assistant supports the educational goals of the student(s), under the direction of the teacher.

Also Known As:

- *Teachers Aide*
- *Child-care worker assistant*

The Scene:

As an Education Assistant you would help implement the teachers developed goals, instructions and activities in a creative climate for learning. You will also be assisting in the development of a young person's life skills.

The Facts:

To become an Education Assistant you must complete a 2268 hour on the job (based on a school year) apprenticeship program. This includes an in-school component. To be eligible you must have a minimum of Grade 12.



ELECTRIC MOTOR SYSTEM TECHNICIAN

Sector: Industrial

NOC/MTCU: 7333/446A

The Deal:

Replacing or repairing electromagnet coils is a central task of these technicians. They also test, repair, and rebuild all the other parts of electric motors as well as fix controllers, transformers, generators, and other related electric equipment.

Also Known As:

- *Armature winder repairer*
- *Coil winder & repairer*
- *Electrical mechanic*
- *Electrical/power transformer repairer*
- *Industrial motor winder-repairer*

The Scene:

Work is performed indoors at various sites: commercial, residential, industrial, and institutional.

The Facts:

It take about 4–6 years (7520 hours), which includes 480 hours of in-class training to complete this apprenticeship program. To be eligible you must be 16 years of age and completed Grade 12. Apprentices must write a Certificate of Qualification exam to become journeypersons. Inter-provincial Red Seal Certificate available.

ELECTRICAL CONTROL (MACHINE) BUILDER

Sector: Industrial

NOC/MTCU: 9485/617A

The Deal:

This job involves preparing and organizing wiring layout from electrical schematics and is primarily involved in the electrical portion of building a machine tool such as installing electrical devices and conduit.

The Scene:

Work is usually indoors and may require standing for long periods of time. Attention to safety is strongly recommended.

The Facts:

It takes about 5400 hours to complete this apprenticeship program. To be eligible you must have completed Grade 12. Math, English and some tech course are recommended.

Also Known As:

- Control panel assembler
- Assembler & wirer, motors & generators
- Switchgear fitter-wirer
- Electrical fitter
- Coil winder, transformer



ELECTRICIAN, CONSTRUCTION & INDUSTRIAL

Sector: Construction & Industrial

NOC/MTCU: 7241/309A/C & 7242/442A

The Deal:

As an Electrician you would be creating the lay out, assembly, maintenance, connection of a wide range of electrical equipment, from lighting to security systems.

- **Domestic and Rural Electricians (7241)** perform numerous tasks in the construction, repair, re-modeling or renovation of residential and farm buildings. This work presents many hazards, so it's strictly regulated.
- **Industrial Electricians (7242)** perform numerous tasks involving heavy industrial machinery. These electricians work mainly indoors and are regulated differently from construction electricians.

The Scene:

This trade is filled with variety. You may work indoors and outdoors, and Electricians work on virtually every kind of building (residential and commercial). Because of the high level of skills required and the dangers of working with electricity, you will require a great deal of knowledge and experience to reach the level of journey person.

The Facts:

Domestic/Rural- 4 years (7200 hours) apprenticeship program required. **General Construction** - 4 to 5 year (9000 hours), **Industrial** – 8160 hour apprenticeship program required and/or examination is mandatory in Ontario. To qualify for the apprenticeship you must be at least 16 years old, and must have completed Grade 12. Inter-provincial Red Seal Certificate available.

Also Known As:

- Apprentice Electrician
- Construction Electrician
- Construction Electrician Apprentice
- Domestic and Rural Electrician

Contacts:

International Brotherhood of Electrical Workers Local Union 1739
178 Tiffin Street
Barrie, On L4M 4Y6
www.ibew1739.ca

Electrical Contractors Association of Ontario

170 Attwell Dr., Suite 460,
Toronto, ON M9W 5Z5
Tel: (416) 675-3226 or (800) 387-3226
Website: www.ecao.org

Canadian Electrical Contractors Assoc.

170 Attwell Drive, Suite 460
Toronto, ON M9W 5Z5
Tel: (416) 675-3226
Website: www.ceca.org

ELECTRICIAN (SIGNAL MAINTENANCE) (TCC)

Sector: Industrial

MTCU: 289F

This is a specialized trade. Contact MTCU Apprenticeship Branch for more information.

Contacts:

Ministry of Training of Colleges and Universities - Apprenticeship Branch

Owen Sound Area Office
1400 1st Ave W, Ste 4,
Owen Sound, N4K 6Z9

Tel: (519) 376-5790

Toll Free: (800) 838-9468

Kitchener Area Office
4275 King St E, Suite 200,
Kitchener, ON N2P 2E9

Tel: (519) 653-5758

Toll Free: (866) 877-0099

www.tcu.gov.on.ca



ELECTRONICS SERVICE TECHNICIAN

Sector: Service

NOC/MTCU: 2242/416E

The Deal:

Do you enjoy fixing things? Are you mechanically inclined? If so then an Electronics Service Technician is the job for you. In this position you would be dealing with the service and repair of various electronic products such as microwaves, computers, audio and video equipment.

The Scene:

Work is performed mostly indoors. With the ever-changing technologies today, technicians will need to keep their skills and knowledge up to date on a continual basis.

The Facts:

It will take 4 years (7280 hrs) to complete this apprenticeship program. To be eligible, you must be 16 years of age and completed Grade 12. Inter-provincial Red Seal Certificate available.

Also Known As:

- Alarm system technician
- Audio-video service technician
- Computer service technician
- Field service technician, electronic products
- Office equipment service technician

ELEVATING DEVICES MECHANIC

Sector: Industrial

NOC/MTCU: 7318/636E

The Deal:

This type of trade involves the installation and repair of passenger elevators, freight elevators, dumbwaiters, escalators, moving walkways, freight platform lifts, stair chair lifts, material construction hoists, workers hoists, funicular railways, stage lifts and other elevating devices.

Also Known As:

- Elevator Constructor
- Elevator Mechanic
- Elevator Mechanic Apprentice
- Escalator Repairer

The Scene:

Work is performed both indoors and outdoors.

The Facts:

It takes 7280 hours to complete this apprenticeship program. To be eligible you must be 16 years of age and completed Grade 12. Apprentices must write a Certificate of Qualification exam to become journeypersons.



ENTERTAINMENT INDUSTRY POWER TECHNICIAN

Sector: Industrial

NOC/MTCU: 5226/269E

The Deal:

These technicians work on temporary installations up to, but not including, hardware connection to the power system of permanent buildings. They work for film, television, live performance, trade shows, special event productions and carnivals.

Also Known As:

- Lighting technician
- Settings shop foreman/woman
- Stage technician
- Theatre technician

The Scene:

Work is performed both indoors and outdoors.

The Facts:

It takes about 2.5 years (4520 hours), which includes in-class training to complete this apprenticeship program. To be eligible you must be 16 years of age and completed Grade 12.

EXTERIOR INSULATED FINISHING SYSTEMS MECHANIC

Sector: Construction

NOC/MTCU: 7293/455A

The Deal:

These technicians install multi-layer exterior wall systems that provide heat and moisture protection.

The Scene:

Work is performed outdoors.

The Facts:

This apprenticeship usually takes from one to two years (3600 hours). To be eligible you must be 16 years of age and completed Grade 12.

Also Known As:

- Boiler & pipe insulator
- Building insulator
- Firestopping insulator
- Heat & frost insulator
- Sound insulator



FACILITIES MECHANIC

Sector: Industrial

NOC/MTCU: TBD/255W

The Deal:

The Facilities Mechanic inspects and maintains building fire safety equipment, building envelope, electrical, heating, ventilation, air-conditioning, plumbing, and water treatment systems; performs ground maintenance.

The Scene:

You would be in charge of the building's efficiency.

The Facts:

To be a Facilities Mechanic you must complete a 3 year (5520 hrs) apprenticeship program. The educational requirement for this apprenticeship is Grade 12. Completion of college preparation physics is an asset.

Also Known As:

- Facilities Systems Technician

FACILITIES SYSTEMS TECHNICIAN

Sector: Industrial

NOC/MTCU: TBD/255B

The Deal:

A Facilities Systems Technician operates, diagnoses, and maintains air-conditioning, ventilation, chiller and refrigeration, water treatment, heating, pumping, low-pressure boiler, and control systems; monitors and operates electrical and plumbing systems; inspects and verifies emergency power, fire suppression, and sprinkler systems.

Also Known As:

- *Facilities Mechanic*

The Scene:

You would be in charge of the building's efficiency.

The Facts:

To become a Facilities Systems Technician you must complete a 4 year (7280 hrs) apprenticeship program. To be eligible for this program you must have completed Grade 12.



FITTER-ASSEMBLER (MOTOR ASSEMBLY)

Sector: Industrial

NOC/MTCU: 9486/661H

The Deal:

In this trade you would be responsible for an array of duties which include: prepares, assembles, maintains, installs, adjusts, sets up, aligns, and modifies large and small motors, generators, and dynamotors.

Also Known As:

- *Automotive engine assembler*
- *Garden machinery assembler*
- *Gearbox assembler*
- *Mechanical assembler*
- *Transmission assembler*

The Scene:

Work is performed indoors in a manufacturing production environment, building AC and DC motors and generators.

The Facts:

It takes about 3-4 years, (7520 hours), as well as in-class training to complete this apprenticeship program. To be eligible you must have completed Grade 12.

FLOOR COVERING INSTALLER

Sector: Construction

NOC/MTCU: 7295/448A

The Deal:

Floor Covering Installers lay carpet, linoleum, vinyl and other floor coverings in residential, commercial and industrial buildings. Your tasks would include measuring, cutting and installing carpeting, resilient floor coverings and hardwood floors.

The Scene:

Working conditions for this trade are indoors with approximately 35 to 40 hours a week. Work in this area can be seasonal and cyclical and involves heavy lifting and the use of hazardous materials; therefore, safety is a priority.

The Facts:

To become a Floor Covering Installer, you are required to complete a 6000 hour apprenticeship program; however, prior education and experience may shorten this time. To be eligible for the program, you must have a minimum of Grade 10. Inter-provincial Red Seal Certificate available.

Also Known As:

- Carpet Installer
- Carpet Layer
- Floor Covering Installer Apprentice
- Floor Covering Mechanic
- Resilient Floor Installer
- Rug Installer
- Vinyl Floor Installer



FUEL & ELECTRICAL SYSTEMS TECHNICIAN

Sector: Motive Power

NOC/MTCU: 7321/310C

The Deal:

As a Fuel and Electrical Systems Technician you would specialize in inspecting, repairing and replacing components of the fuel and electrical systems in cars, trucks and buses. You would use hand and power tools to correct or replace faulty parts, perform engine tune-ups and advise customers of problems and proper maintenance procedures.

The Scene:

In this career, no two jobs are the same. You will have a variety of problems to solve and tasks to perform and customer service skills are critical.

The Facts:

This is a restricted, certified trade; therefore, you must be registered as an apprentice to work as a Fuel and Electrical Systems Technician. The apprenticeship takes about 6500 hours as well as in-class training. Prior education and training may shorten this time. You must have completed your Grade 12.

Also Known As:

- Automobile mechanic
- Automotive service technician
- Tune-up specialist, motor vehicle
- Transmission mechanic
- Truck and transport mechanic

GEMSETTER/ GOLDSMITH

Sector: Service

NOC/MTCU: 7344/606G

The Deal:

If you enjoy working with your hands and are creative then this is the trade for you. You would be cutting, soldering, and rolling metal and setting gems. Your artistic/creative ideas would produce various designs for the gems you work with.

The Scene:

Work is performed indoors.

The Facts:

It takes about 2–3 years (7520 hours), which includes 480 hours of in-class training to complete this apprenticeship program. To be eligible you must have completed Grade 12.

Also Known As:

- *Diamond cutter*
- *Gem cutter*
- *Gemologist*
- *Pearl cutter*
- *Precious stone setter*



HAIRSTYLIST

Sector: Service

NOC/MTCU: 6271/332A

The Deal:

A Hairstylist not only cuts and styles hair, they may also perform related beauty treatments. This trade requires a highly skilled person who has a great eye, and can be creative and conservative at the same time.

The Scene:

A Hairstylist requires good physical stamina as they are on their feet for long periods of time. There is an element of exposure to chemicals and a variety of challenges offered by different clients with different needs.

The Facts:

To become a Hairstylist you must complete a 3020 hour hairstyling apprenticeship program. To participate in the program you must have a minimum of Grade 12. Inter-provincial Red Seal Certificate available.

Also Known As:

- *Barber*
- *Hair colour technician*
- *Hairstylist*
- *Wig stylist*

HARDWARE, LUMBER & BUILDING MATERIALS RETAILER

Sector: Service

NOC/MTCU: 6421/606W

The Deal:

This trade involves direct contact with the public. High quality customer service is essential along with specialized product knowledge specific to hardware, lumber and building materials. Highly developed communication and clerical skills, as well as mechanical aptitude is required.

Also Known As:

- Counter clerk – retail
- Furniture salesperson
- Hardware store clerk
- Retail sales associate
- Retail salesperson

The Scene:

Work is performed mainly indoors in a retail environment.

The Facts:

To become a Hardware, Lumber & Building Materials Retailer you will be required to complete a 4212 hour apprenticeship program. Completion of Grade 12 is required.



HAZARDOUS MATERIALS WORKER

Sector: Construction

MTCU: 253H

The Deal:

If you are interested in protecting the environment this trade may be what you are looking for. You will need to pay close attention to safe working practices and procedures and perform routine inspections. Also be knowledgeable about biological & physical hazards.

Also Known As:

- Environmental health officer
- Hazardous waste inspector

The Scene:

Work may be both indoor and outdoor environments.

The Facts:

To become a Hazardous Materials Worker you will be required to complete a 2898 hour apprenticeship program. Completion of Grade 12 is also required.

HEAT AND FROST INSULATOR

Sector: Construction

NOC/MTCU: 7293/253A

The Deal:

As a Heat & Frost Insulator you would apply insulating materials to plumbing, heating, cooling, and refrigeration systems; piping equipment; pressure vessels; as well as the interior surfaces of buildings to prevent or reduce the transmission of heat, cold, sound, and fire.

The Scene:

You may be employed by construction companies, insulation contractors, or you could even start your own business.

The Facts:

To be a Heat & Frost Insulator you must complete a 4 year (6400 hrs) apprenticeship program. To qualify you must have a minimum Grade 10 education.

Also Known As:

- *Boiler & Pipe insulator*
- *Building insulator*
- *Firestopping insulator*
- *Insulation applicator*
- *Sound insulator*



HEAVY DUTY EQUIPMENT TECHNICIAN

Sector: Motive Power

NOC/MTCU: 7312/421A

The Deal:

Heavy-Duty Equipment Technicians job includes repairing, servicing, and maintaining mobile heavy duty equipment used in construction, forestry, landscaping, material handling, mining and farming - like bulldozers, graders, and mobile cranes.

The Scene:

As a Heavy-Duty Equipment Technician, you will enjoy a variety of worksites and challenges. Work may be both indoors and outdoors and will require physical stamina.

The Facts:

If you want to become a Heavy-Duty Technician, it's recommended that you complete a 6280 hour Apprenticeship Program. To qualify for the program you must have a minimum of Grade 12. Inter-provincial Red Seal Certificate available

Also Known As:

- *Construction equipment mechanic*
- *Diesel mechanic – heavy equipment*
- *Equipment maintenance worker*
- *Equipment repair worker*
- *Equipment service worker*

Contacts:

International Union of Operating Engineers Local 793

2245 Speers Rd.
Oakville, On L6L 6X8
Tel: (905) 469-9299
Toll Free: (877) 793-4863

HEAVY EQUIPMENT OPERATOR (DOZER, EXCAVATOR, TRACTOR LOADER BACKHOE)

Sector: Construction

NOC/MTCU: 7421/636A-C

The Deal:

There are 3 branches of the Heavy Equipment Operator, which is a new non-restricted apprenticeship program, designated under the ACA. Branch 1 - Tractor Loader Backhoe Operator (TLB); Branch 2 - Excavator Operator; Branch 3 - Dozer Operator.

The Scene:

Heavy Equipment Operators perform pre-operational inspections on equipment, general preventative maintenance on equipment, transport equipment, install attachments, load and unload the equipment, etc. This program is intended for persons operating full size (standard) equipment not 'mini' types of equipment.

The Facts:

For this trade you must complete the following apprenticeship programs: Branch 1 time frame - 2260 hours; Branch 2 time frame - 2260 hours; Branch 3 time frame - 2260 hours. To be eligible for all programs you must have a minimum of Grade 12 education. This is an un-restricted trade.

Also Known As:

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



HOISTING ENGINEER (MOBILE CRANE OPERATOR BR 1 & BR 2, TOWER CRANE OPERATOR BR 3)

Sector: Construction

NOC/MTCU: 7371/339A-C

The Deal:

In this trade you will work on everything from high rise buildings to the construction of stadiums like the ACC centre and Skydome. Hoisting Engineers maintain and operate cranes, which lift really heavy materials.

The Scene:

As a Hoisting Engineer you must be comfortable working at heights. Usually on a construction site, crane operators use big rigs to lift and move items that weigh in the tonnes.

The Facts:

Apprenticeship programs are as follows:

Mobile Crane Operator, Br 1: complete 6000 hours.

Mobile Crane Operator, Br 2: complete 1000 hours.

Tower Crane Operator, Br 3: complete 3000 hours.

To be eligible for the program you must have a minimum of Grade 10.

Inter-provincial Red Seal Certificate available for Mobile Crane Operator Br 1&2 only.

Also Known As:

- Boom truck crane operator
- Bridge crane operator
- Climbing crane operator
- Dragline crane operator
- Gantry crane operator

Contacts:

Crane & Hoist Service Association

649 Lowther St. S

Cambridge ON N3H 1Z5

Tel: (519) 653-8619

Website: www.chsa.com

HORSE GROOM

Sector: Service

NOC/MTCU: 8253/600H

The Deal:

This trade deals with every aspect involving horses, from grooming and feeding to tacking up. You will advise the owners and vets of any health problems concerning the horse.

Also Known As:

- *Horse trainer*
- *Feedlot foreman/ woman*
- *Ranch foreman/ woman*

The Scene:

As a Horse Groom your work will take place both in and outdoors and the hours of work will include evenings and weekends. Safety can be an issue when dealing with large animals so a level of caution is recommended.

The Facts:

To become a Horse Groom you must complete a 3598 hour apprenticeship program. To participate in the program you must have a minimum of Grade 12.



HORSE HARNESS MAKER

Sector: Service

NOC/MTCU: 9452/219D

The Deal:

An eye for detail and knowledge of a variety of leathers and specialty stitching will be essential. You will also use specialty hand tools and equipment to complete your product.

Also Known As:

- *Leather cutter*

The Scene:

As a Horse Harness Maker, you will work mainly indoors.

The Facts:

It will take 7400 hours to complete this apprenticeship program. To be eligible, you must have completed Grade 12.

HORTICULTURAL TECHNICIAN

Sector: Service

NOC/MTCU: 2225/441C

The Deal:

Horticulturists plan, organize, and direct the activities of greenhouses and nurseries that grow and sell trees, shrubs, flowers, and plants, maintain greens on golf courses and apply fertilizers, pesticides and herbicides

The Scene:

As a Horticultural Technician expect your work to potentially be physically demanding. Most of the work is performed outdoors and is often seasonal. You must pay close attention to safety, the machines, chemical sprays and tools can be hazardous.

The Facts:

To become a Horticultural Technician, it is recommended that you complete a 5400 hour apprenticeship program. To be eligible for the program you must have a minimum of Grade 12.

Also Known As:

- *Golf course superintendent*
- *Greenskeeper*
- *Horticultural technician*
- *Horticulture specialist*
- *Hydroponics technician*



HYDRAULIC/ PNEUMATIC MECHANIC

Sector: Industrial

NOC/MTCU: 7312/277Z

The Deal:

In this trade you will be installing, maintaining, repairing, rebuilding, or modifying existing hydraulic, pneumatic or fluid systems, controls, and components.

The Scene:

Work is performed both indoors and outdoors.

The Facts:

It takes about 3—4 years (7400 hours), which includes 600 hours of in-class training to complete this apprenticeship program. To be eligible you must have completed Grade 12.

Also Known As:

- *Construction equipment mechanic*
- *Diesel mechanic, heavy equipment*
- *Farm equipment mechanic*
- *Heavy-duty equipment mechanic*
- *Locomotive mechanic*

INFORMATION TECHNOLOGY HARDWARE TECHNICIAN

Sector: Service

NOC/MTCU: 2282/634B

The Deal:

I.T. Hardware Analysts support clients in their use of computer applications and operating systems software. Skilled workers and apprentices install operating systems and application software.

The Scene:

As an I.T. Hardware Technician you will be working indoors, and will require excellent customer service skills. Shift work may be required.

The Facts:

To become an I.T. Hardware Technician you must complete a 6420 hour apprenticeship program. To be eligible for the program you must be at least 16 years of age, and have a minimum of Grade 12.

Also Known As:

- *Hardware installation technician*
- *Hardware technical support analyst*
- *User support technician*
- *Software installation technician*
- *Software technical support analyst*

Contacts:

Ministry of Training of Colleges and Universities - Apprenticeship Branch

Owen Sound Area Office
1400 1st Ave W, Ste 4,
Owen Sound, N4K 6Z9
Tel: (519) 376-5790
Toll Free: (800) 838-9468

Kitchener Area Office
4275 King St E, Suite 200,
Kitchener, ON N2P 2E9
Tel: (519) 653-5758
Toll Free: (866) 877-0099
www.tcu.gov.on.ca



INFORMATION TECHNOLOGY NETWORK TECHNICIAN

Sector: Service

NOC/MTCU: 2282/634C

The Deal:

I.T. Network Technician support clients in their use of computer applications and operating systems software. Skilled workers and apprentices install, configure and maintain client workstations and network servers connected by a Local Area Network (LAN).

The Scene:

As an I.T. Hardware Technician you will be working indoors, and will require excellent customer service skills. Shift work may be required.

The Facts:

Completion of a 6340 hour apprenticeship program is required. To participate and have a minimum Grade 12.

Also Known As:

- *LAN (local area network) administrator*
- *LAN (local area network) technician*
- *Network administrator*
- *Network operator*
- *Network support technician*

CHRIS GORRELL, INFORMATION TECHNOLOGIST



Quote: My trade consists of a lot of different responsibilities. Some of them include network planning, design, managing our service department or managing a large project. I also am involved in cable installation, phone system installation and programming computer networks. A lot of the work involves troubleshooting and maintaining company and personal computer systems.

Things to know

What do you find the most rewarding or interesting about your trade?

The most rewarding aspect of my trade is the satisfaction of completing a job or solving a challenging problem. I also like the diversity of work I do and the daily challenge. There is a need for flexibility in this job, which fits my personal goals.

What influenced you to choose this career?

My career was influenced by the market trends and my interest in computers.

What are some of the rewards and challenges of your trade?

The reward of my trade is the job satisfaction when I have completed a project. In my field, we are constantly having to take courses to learn about new software and hardware, which can be challenging when you're working full time.

What education or training did you need for this trade?

In my trade there is no formal education specific to the computer technician service field. My main education for the field involved specialized courses and certifications. The courses I took were Novell Netware, Microsoft Server 2000, Network Plus office automation diploma, Network plus - office automation diploma, Server plus -2 year programming diploma and A+ Certification. I also have a Marketing Diploma and a Business Sales Diploma.

Do you need specialized skills above and beyond your regular trade qualifications?

To get into some special areas, such as telephone or cabling, I required additional qualifications such as Hubbell premise wiring certificate and Toshiba certified installer.

How did you find your first apprenticeship position?

I found my first apprentice position by cold calling people. You can't be afraid to pick up the phone or visit a company if you want to 'stand out' during a job search...but be professional!

Any tips for young people considering this trade?

There are many tips I would give to young people, but here's a few: everyone has to pay their dues; people skills are very important; have a willingness for ongoing training and learning; have good problem solving skills; having computer and internet skills as foundation is a *must* in my trade.

INFORMATION TECHNOLOGY-CONTACT CENTRE: TECHNICAL SUPPORT AGENT, INSIDE SALES AGENT, CUSTOMER CARE AGENT

Sector: Service

NOC/MTCU: 2282/634A/D/E

The Deal:

I.T. Agents work in contact centres and support clients in their use of a wide variety of hardware and software applications at an advanced level.

The Scene:

Work is performed indoors, and will require excellent customer service skills. Shift work may be required.

The Facts:

To become an I.T. Agent, it's recommended that you complete a 3400-3730 hour apprenticeship program. To participate in the program you must have a minimum Grade 12.

Also Known As:

- Call centre agent - technical support
- Client support representative – systems
- Computer help desk representative – systems
- Computer help desk supervisor
- Help desk technician



INSTRUMENTATION & CONTROL TECHNICIAN

Sector: Industrial

NOC/MTCU: 2243/447A

The Deal:

In this trade you will be responsible for repairs, maintenance, and installation of industrial measuring and controlling instruments. You will ensure that all machines in a plant are safe and running correctly. Constant monitoring and calibrating of these instruments is important to the operation and safety of a plant.

The Scene:

Work is performed mainly indoors.

The Facts:

Completion of a 7280 hour apprenticeship program is required. To participate you must have a minimum Grade 12. Inter-provincial Red Seal Certificate available.

Also Known As:

- Industrial instrument mechanic

IRON WORKER

Sector: Construction

NOC/MTCU: 7264/420A&B

The Deal:

Iron Workers assemble and erect prefabricated metal structures, erect and install scaffolding, equipment and rigging all to precise standards and blueprint instructions.

The Scene:

As an Iron Worker, you can expect to be lifting heavy materials, so workers should be physically fit with good upper body strength combined with agility and be comfortable working at heights and have the ability to climb.

The Facts:

To become an Iron Worker it is recommended that you complete the following apprentice programs:

Generalist Br1 – 8000 hours

Structural & Ornamental Br2 – 6000 hours.

To be eligible for the program you must have a minimum Grade 10. Inter-provincial Red Seal Certificate available.

Also Known As:

- *Ornamental ironworker*
- *Reinforcing ironworker*
- *Structural steel erector/fitter*
- *Metal/steel fabricator*
- *Plate Metal fitter*

Contacts:

Ironworkers, Local 736

1955 Upper James St.
Hamilton, ON L9B 1K8
Tel: (905) 679-6439
Fax: (905) 679-6617
www.ironworker.org

Ontario Sheet Metal Workers' & Roofers' Conference

1312 Hurontario St.
Mississauga, ON L5G 3H3
Tel: (905) 278-2280

Sheet Metal Workers' International Association Local 562

3 Forwell Rd.
Kitchener, ON N2B 1W3
Tel: (519) 744-7072
Toll Free: (800) 554-5575
www.smwialocal562.ca



LIGHT RAIL OVERHEAD CONTACT SYSTEMS LINESPERSON (TTC)

Sector: Industrial

MTCU: 207S

This is a specialized trade. Contact MTCU Apprenticeship Branch for more information.

Contacts:

Ministry of Training of Colleges and Universities - Apprenticeship Branch

Owen Sound Area Office
1400 1st Ave W, Ste 4
Owen Sound, N4K 6Z9
Tel: (519) 376-5790
Toll Free: (800) 838-9468

Kitchener Area Office
4275 King St E, Suite 200,
Kitchener, ON N2P 2E9
Tel: (519) 653-5758
Toll Free: (866) 877-0099
www.tcu.gov.on.ca

LOCKSMITH

Sector: Industrial

NOC/MTCU: 7383/259L

The Deal:

As a Locksmith, you would be inspecting, repairing, adjusting and installing locks, as well as installing doors and frame components to secure locks and make keys. Once you become a Locksmith, you could also work as a Safe and Vault Servicer.

The Scene:

As a Locksmith, you can expect to work both indoors and outdoors. While most Locksmiths work the standard 40 hour work week, shift work may be involved. You also must be prepared to answer emergency calls.

The Facts:

If you would like to become a Locksmith, it is recommended that you complete a 6000 hour apprenticeship program; however, previous education and work experience may shorten this time. To qualify for the program, you must have completed Grade 12.

Also Known As:

- *Safe & vault technician*



MACHINIST (GENERAL)

Sector: Industrial

NOC/MTCU: 7231/429A

The Deal:

Machinists set up and operate a variety of machine tools to cut and grind metal, shape metal, and finish metal into precision parts. These machine components are used in all areas of manufacturing. You can specialize as an *Automotive Machinist* or a *Machining & Tooling Inspector* who checks dimensions of machine parts. They maintain, repair, and adjust measuring equipment. They also report any changes from the specifications and maintain inspection records.

The Scene:

As a Machinist, you will be working indoors, usually in an industrial setting that may be noisy and potentially hazardous. Lifting and carrying, and prolonged standing while the machines are running is common.

The Facts:

To become a Machinist it's recommended that you complete a 7280 hour apprenticeship program *or* a combination of work experience in the trade and some college or industry courses to be eligible for the trade certification is required. To be eligible for the program you must have completed Grade 12. Inter-provincial Red Seal Certificate available.

Also Known As:

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

Contacts:

Canadian Manufacturers & Exporters - Ontario

6725 Airport Road, Suite 200
Mississauga, ON
Tel: (905) 672-3466
or (800) 268-9684
Website: www.cme-mec.ca

Canadian Machinery Vibration Association

Ste. 877, 105 - 150 Crowfoot Cres. NW
Calgary, AB T3G 3T2
Tel: (403) 208-9618
Website: www.cmva.com

MARK CORRIGAN, MACHINIST APPRENTICE

Quote: When starting a new job, I go to the job board and get the work order and drawing for the part. I then get the material and cut it to length. Next, I determine whether it requires milling on the Conventional mill or CNC mill, or if it is a turning operation in the lathe. I then mill or turn in to size, in accordance with the drawing, tap, drill and mill all slots as required, harden, blacken or grind if needed. Finally I inspect, clean and package.



Things to know

What is the most interesting aspect of your trade?

All the different types of material that I get to work with. The number of variables that play a role in getting a good finished product, such as the affect of different speeds, feeds and the tooling used to cut the part.

How did you become interested in your profession?

Who was most influential in helping you decide on this profession?

I realized I liked to work with my hands and that I was a good in math. So I took a co-op placement and thought that it would be a good career for me to work in. My MFG, welding teacher mostly, but parents and guidance counsellors also played a role.

What are some of the rewards and benefits of your trade?

Getting to see a part that I've made, in action, doing its job.

What education or training did you need for this position? How many apprenticeship hours and years were required?

I took an eight-month General Machinist/Tool and Die course at Sir Sandford Fleming College, which I believe played a big role in getting my job. A machinist's apprenticeship lasts about 4 years, which included one thousand hours of in class theory and seven thousand hours of in the shop, hands-on practical.

Do you have any specialized training or do any specialized work above and beyond your regular trade qualifications?

No particular specialized training, but growing up on a farm, being around the machinery, and working with it has also contributed.

How did you find your first apprenticeship position?

I found my first apprenticeship position by attending the skilled trades fair, handing out resumes and talking to local (employers') machine shops. In particular, the Machining Center. I had been to their shop and dropped of resumes previous to the trades fair, but it wasn't until after talking, face to face, with them at the fair that I received an interview, then a job and finally my apprenticeship.

Do you have any tips or suggestions for young people considering (or preparing for) a career in your trade?

Take math courses, including trigonometry and geometry, but especially math for technology. Also get into a co-op placement and get some hands-on experience in order to find out whether or not that field is for you. Take as many tech courses as you can, such as: Welding, MFG, Drafting, Automotive, Woodworking, and electricity.

MACHINE TOOL BUILDER AND INTEGRATOR

Sector: Industrial

NOC/MTCU: 7316/430M

The Deal:

A Machine Tool Builder and Integrator builds and integrates parts, components, and systems for both stand-alone machine tools and multi-station automated machine-tool systems used in all sectors of manufacturing, including assemble, processing, and fabricating systems.

The Scene:

Work is usually performed indoors. The ability to read blueprints is an asset.

The Facts:

To be a Machine-Tool Builder and Integrator you must complete a 4 - 5 year (7280 hrs) apprenticeship program. In order to be eligible for this program you must have a Grade 12 education. Concentration on English, Math, and Physics would be an asset.

Also Known As:

- Aircraft engine fitter
- Assembly fitter
- Heavy equipment fitter
- Machine fitter
- Mechanical fitter



MARINE ENGINE TECHNICIAN

Sector: Motive Power

NOC/MTCU: 7335/435B

The Deal:

As a Marine-Engine Mechanic, you would be repairing and servicing all marine equipment, including inboard and outboard engines.

The Scene:

You could be employed by dealer service shops or by independent service establishments such as a marina.

The Facts:

To become a Marine-Engine Mechanic it is recommended that you complete a 4280 hour apprenticeship program. To be eligible for the program you must be at least 16 years of age, and you must have a minimum of Grade 12.

Also Known As:

- Motor boat mechanic
- Outboard motor mechanic
- Small engine technician
- Small equipment mechanic apprentice
- Small equipment repairer

METAL FABRICATOR (FITTER)

Sector: Industrial

NOC/MTCU: 7263/437A

The Deal:

As a metal Fabricator you will be required to assemble structural metal products. These products would include frameworks or shells for machinery, ovens, tanks, and stacks, and metal parts for buildings and bridges.

The Scene:

Work is usually performed indoors and shift work may be required. Ability to read blueprints is required.

The Facts:

To become a Metal Fabricator you must complete a 4680 hour apprenticeship program and you must have a minimum of Grade 12. Inter-provincial Red Seal Certificate available.

Also Known As:

- *Plate Metal fitter*
- *Fitter*
- *Steel fabricator*
- *Structural steel fitter*

Contacts:

Canadian Steel Trade & Employment Congress

234 Eglinton Ave. E., Ste 501,
Toronto, ON M4P 1K7.
Tel: (416) 480-1797
Website: www.cstec.ca



MICRO ELECTRONICS MANUFACTURER

Sector: Service

NOC/MTCU: 9483/630A

The Deal:

In this trade you would set up, operate, and monitor automated equipment, making sure that it keeps running.

The Scene:

Work is performed indoors.

The Facts:

To complete this apprenticeship program, it will take about 2–4 years (4000 hours), which includes in-class training (the in-class hours are presently under revision by the Ministry of Training, Colleges, and Universities). To be eligible you must be 16 years of age and completed Grade 12.

Also Known As:

- *Precision instrument assembler*
- *Capacitor assembler*
- *Circuit board assembler*
- *Component inserting machine operator*
- *Electronics assembler*

MILLWRIGHT: CONSTRUCTION, INDUSTRIAL MECHANIC

Sector: Industrial/Construction

NOC/MTCU: 7311/426A/433A

The Deal:

Millwrights are involved in the installation, repair, and maintenance of complex machinery in a range of industries (manufacturing, automotive parts and assembly, textiles, food processing, and mining and forest products to name a few).

Construction Millwrights are mostly engaged in the initial installation of industrial plant machinery and equipment. Industrial Mechanics are concerned with the post-installation maintenance and repair of machinery and equipment.

The Scene:

This is a job for a generalist – someone with an understanding of machines and their workings. You will need the ability to solve problems and assign priorities. Physical strength is an asset.

The Facts:

To become a Millwright it is recommended that you complete a 7280 hour apprenticeship program. To be eligible for the program you must have a minimum of a Grade 10 for a Construction Millwright and Grade 12 for an Industrial Millwright. Inter-provincial Red Seal Certificate available.

Also Known As:

- *Industrial Mechanic*
- *Maintenance Millwright*
- *Plant Equipment Mechanic*
- *Treatment Plant Mechanic*

Contacts:

Millwright Regional Council Of Ontario

79 Sunrise Ave.

Toronto, ON M4A 1A9

Tel: (416) 757-8754

Website: www.millwrightsontario.com

Association of Millwrighting Contractors of Ontario Inc.

Suite 218, 290 N. Queen St.

Etobicoke, ON M9C 5L2

Tel: (416) 620-6558

Website: www.amcontario.ca



MOTIVE POWER MACHINIST

Sector: Motive Power

NOC/MTCU: 7231/410K

The Deal:

Motive Power Machinists set up and operate a variety of machine tools to cut and grind metal, shape metal, and finish metal into precision parts. These machine components are used in all areas of manufacturing.

The Scene:

As a Motive Power Machinist, you will be working indoors, usually in an industrial setting that may be noisy and potentially hazardous. Lifting and carrying, and prolonged standing while the machines are running is common.

The Facts:

To become a Motive Power Machinist it's recommended that you complete a 5340 hour apprenticeship program. To be eligible for the program you must have completed Grade 12.

Also Known As:

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

Contacts:

Canadian Manufacturers & Exporters

1 Nicholas St Suite 1500,

Ottawa, ON K1N 7B7

Tel: (613) 838-8888

Website: www.cme-mec.ca

Canadian Machinery Vibration Association

Ste. 877, 105 - 150 Crowfoot Cres. NW

Calgary, AB T3G 3T2

Tel: (403) 208-9618

Website: www.cmva.com

JOHN POSTE, MILLWRIGHT



Quote: As an Industrial Millwright I maintain, install, upgrade, and fix all moving equipment in an industrial setting. I have worked in product development services, in which a client would come to us with a concept and we must make the concept a reality, in terms of the capital and labour costs. I'm also responsible for: identifying sustaining and project capital; identifying vendors and service contractors; ensuring maintenance tasks are done in a timely manner and adhering to the production schedule.

Things to know

What do you find the most rewarding or interesting about your trade?

Working on a piece of equipment that requires research in order to optimize or repair it. The range of employment options that are available is rewarding. The amount of impact that a tradesperson can have on a business is significant, especially when your team must solve costly production issues.

What influenced you to choose this career?

My high school teachers really encouraged careers in the trades. Our trade's teachers talked a lot about the great money they made in the trades as machinists and in welding technology. My other favourite subjects were history and geography. However, I don't recall discussing how much money we would make as historians or geographers, so the natural choice for me was to go where there was good money!

What education or training did you need for this trade?

The industrial millwright's apprenticeship is 8000 hours or 4 years. In those 4 years you are required to complete three school intakes of 2 months each. A more popular option is attending school one day a week for the duration of your apprenticeship. One thing I emphasize is that when you are certified in a trade you must still continue to build on the foundation in order to have the greatest impact on your business. The learning never stops.

Do you need specialized skills above and beyond your regular trade qualifications?

Because you're exposed to so many different types of processes and equipment, it is impossible to gain all

of the knowledge you need in trade school, unless the apprenticeships were made significantly longer. A lot of millwrights do specialize in one particular aspect of the trade, such as fluid power, alignment, hoisting, fabricating, equipment sales. In addition to many technical courses, I have studied Quality Concepts, Ontario Management Development Program, Plant Engineering and a lot of self studies.

How did you find your first apprenticeship position?

I was hired as a machine maintenance person based on my previous experience in the machine shop. I was working with 4 tradespeople and thought that I should be an apprentice. So, I went out and got all the paperwork needed to become an apprentice. I made a business case to my manager and he signed the paperwork.

Any tips for young people considering this trade?

A person wanting to enter a career in the trades must leave high school with a good understanding of the tools that have been presented. In manufacturing, algebra, trigonometry and standard deviation can be applied every day, depending on where you work. Be prepared to showcase your skills by knowing how to apply these basic techniques.

Are there any other experiences that you have gained from your career?

Some experiences that I have gained from my career is being an instructor in the factory at the college level. Instructing is truly rewarding, especially when you see how it has impacted people's lives in such a positive way.

MOTORCYCLE TECHNICIAN

Sector: Motive Power

NOC/MTCU: 7334/310G

The Deal:

Motorcycle Technicians inspect, diagnose, and repair motorcycles, scooters, ATVs and snowmobiles.

The Scene:

As a Motorcycle Technician, you will work in service shops or motorcycle dealerships.

The Facts:

To become a Motorcycle Technician you are required to complete a 5550 hour apprenticeship program. To be eligible for the program you must be at least 16 years of age, and you must have a minimum of Grade 12. Inter-provincial Red Seal Certificate available.

Also Known As:

- All-terrain vehicle repairer
- Forklift mechanic
- Industrial truck repairer
- Motor scooter repairer
- Snowmobile repairer



MOULD MAKER: DESIGNER, DIE FINISHER

Sector: Industrial

NOC/MTCU: 7232(670E/431A/277M)

The Deal:

Mould Makers design, fabricate, and repair moulds and models to mass-produce plastic or metal components and products.

The Scene:

You will operate powerful, high-speed machinery that is potentially dangerous. There can be a lot of standing while the machine is working.

The Facts:

To become a Mould Maker it is recommended that you complete a 7280 hour apprenticeship program. Designer: 24 months, Die Finisher: 3760 hour apprenticeship program. To be eligible for the program you must have a minimum of Grade 12.

Also Known As:

- Jig maker
- Metal mould maker
- Metal patternmaker
- Tool and Die Maker
- Tool maker

Contacts:

Canadian Association Of Mould Makers

St. Clair College
2000 Talbot Rd W Box 16
Windsor, ON N9A 6S4
Tel: (519) 255-7863
Toll Free: (800) 567-CAMM
Website: www.camm.ca

NATIVE CLOTHING & CRAFTS ARTISAN

Sector: Service

NOC/MTCU: 7342/296B

The Deal:

Reflecting traditional themes, you would be designing and making tailored clothes and associated leather crafts.

The Scene:

Work is performed indoors.

The Facts:

It will take 3520 hours to complete this apprenticeship program. To be eligible you must have completed Grade 12.

Also Known As:

- Tailor
- Seamstress
- Custom furrier
- Custom tailor
- Milliner



NATIVE RESIDENTIAL CONSTRUCTION WORKER

Sector: Construction

NOC/MTCU: 7611/296A

The Deal:

As a Native Residential Construction Worker you would perform a variety of jobs similar to a general carpenter such as erecting foundations, framing and finishing; building stairs, counters, and cupboards; and laying flooring to name a few.

The Scene:

As a Native Residential Construction Worker, you will find yourself working both indoors and outdoors, on new construction or renovating.

The Facts:

To become a Native Residential Construction Worker you are required to complete a 4000 hour apprenticeship program. You must have a minimum education of Grade 12.

Also Known As:

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

NETWORK CABLING SPECIALIST

Sector: Service

NOC/MTCU: 7245/631A

The Deal:

Network cabling specialists read blueprints, select appropriate cables, plan and install wiring systems, and interpret technical documents. They splice, repair and test various types and sizes of telephone and other telecommunication cables including single line, coaxial and fibre-optic.

The Scene:

Your work is usually performed indoors and requires careful attention to detail.

The Facts:

To become a Network Cabling Specialist it is recommended that you complete a 4000 hour apprenticeship program. To be eligible to participate you have a minimum Grade 12.

Also Known As:

- *Lineman/woman, telecommunications*
- *Splicer technician, telephone*
- *Telecommunications line installer*
- *Telephone line technician*
- *Cable repairer, telecommunications*



OPTICS TECHNICIAN (LENS & PRISM MAKER)

Sector: Industrial

NOC/MTCU: 3414/255A

The Deal:

These technicians make lens to be used in cameras, eyeglasses, microscopes, binoculars, and telescopes. They also manufacture prisms for the aerospace industry and other lens for laser-scanning devices.

The Scene:

Work is performed indoors.

The Facts:

It will take 8000 hours to complete this apprenticeship program. To be eligible you must have completed Grade 12. Strong computer and mathematical skills are recommended for this profession.

Also Known As:

- *Lens grinder, ophthalmic*
- *Ophthalmic lab technician – retail*
- *Optical lab assistant*
- *Optometrist assistant*

PACKAGING MACHINE MECHANIC

Sector: Industrial

NOC/MTCU: 7311/609C

The Deal:

In this trade you would set up, trouble shoot, diagnose, repair and maintain automated packaging systems.

The Scene:

Work is performed indoors.

The Facts:

It will take 7840 hours to complete this apprenticeship program. To be eligible you have completed Grade 12.

Also Known As:

- Industrial mechanic
- Maintenance millwright
- Millwright
- Plant equipment mechanic
- Treatment plant mechanic



PAINTER & DECORATOR BR1 COMMERCIAL & RESIDENTIAL, BR2 INDUSTRIAL P&D

Sector: Service

NOC/MTCU: 7294/404C&D

The Deal:

Commercial and Residential

Painters apply wall coverings, paint and other finishes to the interior and exterior surfaces of buildings. Painters may also assemble scaffolds to work on ceilings or other high places.

Industrial Painters prepare surfaces and paint factories, bridges, storage tanks, and other types of industrial structures. They assemble scaffolds, cradles, ladders, and other structures to form work platforms.

The Scene:

Physical fitness with good upper body strength combined with a comfort working at heights is necessary for this job. Typical jobsites include residential housing, offices and commercial buildings.

The Facts:

To become a painter it's recommended that you complete a 6000 hour apprenticeship program. To be eligible for the program you must have a minimum of Grade 10. Inter-provincial Red Seal Certificate available – Residential & Commercial only.

Also Known As:

- Construction painter
- Maintenance painter
- Painter & decorator
- Paperhanger

Contacts:

**Ontario Provincial Council of the
International Brotherhood of Painters
& Allied Trades**

130 Toro Rd Unit C
Toronto, ON M3J 3M9
Tel: (416) 635-7300
Website: www.oifsc.com

PARTS TECHNICIAN

Sector: Service

NOC/MTCU: 1472/240P

The Deal:

A Parts Technician orders, ships, delivers, stores, displays, and sells parts and products for the automotive, motive power equipment, and heavy equipment sectors; provides parts in-house and to other customers.

Also Known As:

- *Automotive partsperson*
- *Motor vehicle parts clerk*
- *Parts / Inventory clerk*

The Scene:

Employment opportunities include manufacturers, warehouses, retail & wholesale, mining, forestry, construction, repair shops, hospitals, and the armed forces.

The Facts:

You can become a Parts Technician by completing a 5460 hour apprenticeship program. To be eligible for this program you must have a minimum Grade 12 education. Inter-provincial Red Seal Certificate available.



PATTERN MAKER

Sector: Industrial

NOC/MTCU: 7232/433A

The Deal:

Pattern Makers make the initial shapes or models that are used to produce moulds, forms and dies. These are used to mass produce the components of virtually every manufactured product. These patterns are generally made of steel, wood, aluminum or plastic.

Also Known As:

- *Metal mould maker*
- *Metal patternmaker*
- *Tool and die maker*
- *Tool maker*
- *Jig maker*

The Scene:

Work is performed indoors, and this trade requires that precise specifications be followed. Generally you will work alone although there may be a number of Pattern Makers in the same shop.

The Facts:

To become a Pattern Maker it is recommended that you complete a 7280 hour apprenticeship program. To be eligible for the program you must have completed Grade 12.

PLUMBER

Sector: Construction

NOC/MTCU: 7251/306A

The Deal:

Plumbers assemble, install, maintain, and repair piping systems such as water, waste, drains, and vents, including fixtures and appliances for home, commercial and industrial use. You can specialize as a maintenance plumber, plumber apprentice, plumbing mechanic or a mechanical contractor.

The Scene:

Plumbing is a multi-faceted trade with applied skills in hospitals, commercial buildings, manufacturing plants, houses, apartments and process piping. Plumbers perform work both indoors and outdoors. Safety is a high priority.

The Facts:

Plumbing is a complex and analytical trade, so taking courses in mathematics and drafting would be helpful in preparing yourself for a career as a Plumber. To become a Plumber you are required to complete a 5 year (9000 hrs) apprenticeship program or a combination of 5 years of work experience in the trade and some high school, or college courses. To be eligible for the program you must have a minimum of Grade 10. Trade certification is compulsory in Ontario. Inter-provincial Red Seal Certificate available.

Also Known As:

- *Maintenance plumber*
- *Plumbing mechanic*

Contacts:

Plumbers & Steamfitters UA - Local 527

225 Frobisher Drive
Waterloo, ON N2V 2G4
Tel: (519) 746-3300
www.ua527.com



POOL AND HOT TUB/SPA SERVICE TECHNICIAN/INSTALLER

Sector: Service

NOC/MTCU: 7441/237S&T

The Deal:

A Pool and Hot Tub/Spa Service Technician installs, repairs, and maintains all types of above, on, and in-ground pools, spas, and hot tub structures.

The Scene:

You would install & maintain pools and hot tubs/spas for residential or commercial use.

The Facts:

To be a Pool and Hot Tub/Spa Service Technician you must complete a 5520 hour apprenticeship program. To be eligible for the program you must have a minimum Grade 12 education.

Also Known As:

- *Recreation structure erector/installer*

POWERED LIFT TRUCK TECHNICIAN

Sector: Motive Power

NOC/MTCU: 7334/282E

The Deal:

In this trade you would be troubleshooting and repairing engines, fuel systems, vehicle electrical systems, power trains, brake, steering, and hydraulic systems.

Also Known As:

- *Forklift mechanic*
- *Industrial truck repairer*

The Scene:

Work is performed both indoors and outdoors.

The Facts:

It takes 6280 hours to complete this apprenticeship program. To be eligible you must have completed Grade 12. Apprentices must write a Certificate of Qualification exam to become a journeyman.



POWERLINE TECHNICIAN

Sector: Construction

NOC/MTCU: 7244/434A

The Deal:

Powerline technicians build, repair and maintain overhead and underground electrical power lines. They also erect and maintain metal, wood and concrete poles, towers and guy wires.

Also Known As:

- *Electrical power system-lineman/ woman*
- *Cable installer - electrical power*
- *Cable splicer-electrical power construction*
- *Power line patroller*

The Scene:

This type of work is performed outdoors. You will be required to travel to and from the work site, sometimes in very remote areas.

The Facts:

It will take 8000 hours to complete this apprenticeship program. To be eligible for the program you must have a minimum Grade 10 education, with credits in math and physics. Inter-provincial Red Seal Certificate available.

Contacts:

Electrical Contractors Association of Ontario

170 Attwell Dr., Suite 460
Toronto, ON M9W 5Z5
Tel: (416) 675-3226 or (800) 387-3226
Website: www.ecao.org

Infrastructure Health and Safety

5110 Creekbank Rd., Suite 400
Mississauga, ON L4W 0A1
Tel: (905) 625-0100 or (800) 263-5024
website: www.healthandsafetyontario.ca

Power Workers Union

244 Elglinton Ave E.,
Toronto, ON M4P 1K2
Tel: (416) 481-7115
Website: www.pwu.ca

PRECAST CONCRETE ERECTOR/FINISHER

Sector: Construction

NOC/MTCU: 7282/244K&L

The Deal:

Precast Concrete Erectors are often involved in loading and unloading panels, as well as storage of the panels at a job site. They also must be able to read architectural drawings. **A Precast Concrete Finisher** repairs, finishes, cleans, grouts and caulks all precast concrete surfaces.

Also Known As:

- *Cement mason*
- *Concrete finisher*
- *Concrete mason*

The Scene:

Work is performed both indoors and outdoors.

The Facts:

It will take 4500 hours (Finisher) and 5400 hours (Erector), to complete this apprenticeship program. To be eligible you must have completed Grade 10 (Grade 12 preferred).



PRECISION METAL FABRICATOR

Sector: Industrial

NOC/MTCU: 7261/200G

The Deal:

A Precision Metal Fabricator cuts and shapes sheet metals into various products for a variety of industries ie: telecommunications, medical & high tech. Some duties include interpreting blueprints, joining metal parts by welding, brazing or soldering, always ensuring product quality.

Also Known As:

- *Sheet metal fabricator*
- *Sheet metal mechanic*
- *Sheet metal worker*
- *Tinsmith*

The Scene:

Work is performed indoors.

The Facts:

It will take 8000 hours to complete this apprenticeship program. Strong mathematical, analytical and problems solving skills are recommended. To be eligible you must have completed Grade 12.

PROCESS OPERATOR: REFINERY, CHEM & LIQUID, PROCESSES; POWER; AND FOOD MANUFACTURING

Sector: Industrial

NOC/MTCU: 9232/246F/R/T

The Deal:

In this trade you would operate, monitor, adjust and maintain processing systems and equipment. This can include operating electronic or computerized control panels, control of process start-up and shut-down and troubleshooting.

Also Known As:

- Chemical process operator
- Fractionator operator
- Gas plant operator
- Pharmaceutical processing operator
- Process technician

The Scene:

Work is performed both indoors and outdoors.

The Facts:

It will take 6480 hours, (4300 hours for Food Manufacturing) to complete this apprenticeship program. To be eligible you must have completed Grade 12.



PUMP SYSTEMS INSTALLER

Sector: Industrial

NOC/MTCU: 7311/263F

The Deal:

As a Pump Systems Installer you would be servicing and repairing a variety of different types of pump systems. Some are pistons, centrifugals, wells, submersibles and vertical turbine pumps.

Also Known As:

- Industrial mechanic
- Construction/ maintenance millwright
- Plant equipment mechanic
- Treatment plant mechanic

The Scene:

Work is performed both indoors and outdoors.

The Facts:

It will take 4000 hours to complete this apprenticeship program. To be eligible you must have completed Grade 12.

RAILWAY CAR TECHNICIAN

Sector: Industrial

NOC/MTCU: 7314/268R

The Deal:

These technicians inspect the outside of passenger and freight cars for damage. They also maintain the railcars' compressors, air valves, bearings, air cylinders, and piping. Inside passenger cars, seats, windows and other equipment need upkeep as well.

Also Known As:

- *Rail vehicle mechanic*
- *Railway car inspector*
- *Railway carman/ woman*
- *Streetcar & subway car mechanic*

The Scene:

Work is performed both indoors and outdoors.

The Facts:

You must complete 7280 hours, which includes 720 hours of in-school training for this apprenticeship program. Completion of Grade 12 is required to be eligible.



RECREATION VEHICLE TECHNICIAN

Sector: Motive Power

7383/690H

The Deal:

These technicians service and repair recreation vehicles such as trailers, campers and motor homes.

Also Known As:

- *All-terrain vehicle repairer*
- *Motor scooter repairer*
- *Snowmobile repairer*

The Scene:

Work is performed both indoors and outdoors.

The Facts:

For this apprenticeship trade, you must complete a 3-4 year program (6280 hours). Completion of Grade 12 is required to be eligible. Inter-provincial Red Seal Certificate available.

REFRIGERATION AND AIR CONDITIONING MECHANIC

Sector: Construction

NOC/MTCU: 7313/313A

The Deal:

Refrigeration and Air Conditioner Mechanics assemble, install, and repair components of refrigeration and air-conditioning systems in residential, commercial, and industrial settings. You can specialize as a Central Air Conditioning Mechanic, Commercial Air Conditioning Mechanic or a Heating and Cooling Mechanic.

The Scene:

Work conditions are highly dependent on the location of the job. Several hazards like electric shock and heights pose a threat but following safety procedures reduces the risk greatly.

The Facts:

To become a Refrigeration and Air Condition Mechanic you are required to complete a 5 year (9000 hrs) apprenticeship program. To be eligible for the program you must have a minimum of Grade 10. Inter-provincial Red Seal Certificate available.

Also Known As:

- Central air conditioning mechanic
- Commercial air conditioning mechanic
- Heating and cooling mechanic
- Heating, ventilation and air conditioning (HVAC) mechanic
- Transport refrigeration mechanic

Contacts:

Ontario Refrigeration & Air Conditioning Contractors Association
6770 Davand Dr. Unit 43
Mississauga, ON L5T 2G3
Tel: (905) 670-0010
Website: www.orac.ca

HRAI-Heating, Refrigeration & Air Conditioners Institute of Canada
2800 Skymark Ave. Bldg 1, Suite 201
Mississauga, ON L4W 5A6
Tel: (905) 602-4700 or (800) 267-2231
Website: www.hrai.ca



REINFORCING RODWORKER

Sector: Construction

NOC/MTCU: 7264 452A

The Deal:

If you want to be part of the construction scene, becoming a Reinforcing Rodworker will get you there. You will fabricate, handle, sort, cut, bend, rig, place, burn, weld, and tie all materials used to reinforce concrete construction.

The Scene:

As a Reinforcing Rodworker, you will find yourself at a variety of work sites, both indoor and outdoor.

The Facts:

To become a Reinforcing Rodworker, you must complete a 2 year (4000 hours) apprenticeship program. To qualify for this program you must have complete Grade 10, however a Grade 12 Math credit is encouraged.

Also Known As:

- Ironworker
- Ironworker - metal building systems erector
- Ornamental ironworker
- Structural steel erector

RELAY AND INSTRUMENTATION TECHNICIAN

Sector: Industrial

NOC/MTCU: 7242/288R

The Deal:

A Relay & Instrumentation Technician repairs, maintains and regulates Vital Signal Control Relays (VSCR) within the transit environment.

The Scene:

Work can be indoors and outdoors as well as above and below ground, depending on who you are employed with.

The Facts:

You will be required to complete a 7680 hour apprenticeship program with 320 hours of in-class training. To be eligible you must have completed Grade 12.

Also Known As:

- *Electrician, shipyard*
- *Industrial electrician*
- *Plant electrician*
- *Plant maintenance electrician*



RESIDENTIAL AIR CONDITIONING SYSTEMS MECHANIC

Sector: Construction

NOC/MTCU: 7313/313D

The Deal:

Residential Air Conditioning Systems Mechanics install and repair systems for residential clientele.

The Scene:

Work will be mainly indoors.

The Facts:

A completion of a 4500 hours apprenticeship program is required. To be eligible you must have a minimum of Grade 10.

Also Known As:

- *Central air conditioning mechanic*
- *Commercial air conditioning mechanic*
- *Heating and cooling mechanic*
- *Heating, ventilation and air conditioning (HVAC) mechanic*
- *Refrigeration mechanic*

RESTORATION MASON

Sector: Construction

NOC/MTCU: 7281/244H

The Deal:

Becoming a Restoration Mason is a great way of preserving a town, city, or family historic building. You would prepare mortars; cut out & fill joints; repair or reset bricks, stone, and terra cotta blocks, rubble and brickwork; drill; grout, and pin fractured stone; and carry out washing and mechanical/chemical cleaning.

Also Known As:

- *Apprentice bricklayer*
- *Brickmason*
- *Refractory bricklayer*
- *Stonecutter*
- *Stonemason*

The Scene:

There would be variety in the jobs you tackle. No two jobs would be exactly alike.

The Facts:

To be a Restoration Mason you must complete a 2 ½ to 3 year (6000 hrs) apprenticeship program. To be eligible for the program you must have completed Grade 10.



RETAIL MEAT CUTTER

Sector: Service

NOC/MTCU: 6251/245R

The Deal:

A Retail Meat Cutter is responsible for the receiving, preparation, cutting, wrapping, trimming, labeling and storing of meat and meat products. You will be working with meat processing tools and will become knowledgeable in such areas as sanitation controls and legislation, Public Health Act, Weights and Measures Act, Food and Drug Act, etc.

Also Known As:

- *Butchers*
- *Meat cutters*

The Scene:

Employers are looking for people who have high school science, mathematics, and good communication and customer service skills.

The Facts:

To become a Retail Meat Cutter you are required to complete a 3460 hour apprenticeship program. To be eligible for the program you must have a minimum of Grade 12.

ROLL GRINDER/TURNER

Sector: Industrial

NOC/MTCU: 9511/602H

The Deal:

In this trade you will be working with such metals as iron, cast iron and steel, high chrome, and tool steel, grinding, turning and texturing these metals for steel processing companies.

The Scene:

Work is performed indoors.

The Facts:

It will take about 2–3 years (5760 hours) to complete this apprenticeship program. To be eligible you must have completed Grade 12.

Also Known As:

- *Production grinder operator - metal machining*
- *Boring mill operator - metal machining*
- *CNC machining tool operator*
- *Lathe machining operator*
- *Machining tool operator*



ROOFER

Sector: Construction

NOC/MTCU: 7291 449A

The Deal:

Working as a Roofer involves installing, repairing or replacing shingles or other roofing tiles. After an apprentice program has been completed, you may become a foreperson, supervisor or even start your own business.

The Scene:

Physical fitness along with strong upper-body strength is a must as Roofers carry heavy equipment such as ladders and roofing materials. You must be comfortable working outdoors and at heights. The work in this trade is often seasonal and weather conditions are often a factor.

The Facts:

To become a Roofer you are required to complete a 4000 hour apprenticeship program. To be eligible for the program you must have completed Grade 10 as a minimum. Inter-provincial Red Seal Certificate available.

Also Known As:

- *Asphalt roofer*
- *Built-up roofer*
- *Flat roofer*
- *Residential steep roofer*
- *Shingler*

SADDLERY

Sector: Service

NOC/MTCU: 9452/219C

The Deal:

In this trade you would design, make, rebuild/repair saddles, saddle trees, harnesses, riding boots and associated tack, such as bridles and stirrups, for all equestrian disciplines. To be a success in this trade you will need communications, manual dexterity and organizational skills.

Also Known As:

- *Leather cutter*
- *Sample cutter*
- *Shoe cutter*

The Scene:

Work is performed both indoors and outdoors.

The Facts:

To complete this apprenticeship program will take about 3 years (5440 hours). To be eligible you must have completed Grade 12.



SAW FILER/FITTER

Sector: Industrial

NOC/MTCU: 7383/611B

The Deal:

If you are mechanically inclined, have good manual dexterity and not afraid of hard physical work, then this trade is for you. You would be maintaining wood sawing machines in lumber and paper mills, which included filing, repairing, setting and sharpening of all types of saw blades.

Also Known As:

- *Mill worker*
- *Lumber yard worker*

The Scene:

Work is performed both indoors and outdoors.

The Facts:

To complete this apprenticeship program will take about 3-4 years (8000 hours). To be eligible you must have completed Grade 12.

SHEET METAL WORKER

Sector: Construction

NOC/MTCU: 7261/308A

The Deal:

Some Sheet Metal Workers build and install ductwork for air handling systems, while others work in fabrication shops. However there are applications for Sheet Metal Workers in the nuclear, chemical, automotive and construction industries as well. The career involves shearing, forming, fabricating, welding, soldering and assembling objects made from galvanized iron, sheet steel, copper, nickel alloy, stainless steel, aluminum and sometimes plastic.

The Scene:

Expect your work to be performed on construction sites and in various kinds of manufacturing and production plants. Workers may be exposed to weather conditions, noise and dust, but as a rule manufacturing and shop work are done indoors. Physical fitness is important.

The Facts:

To become a sheet metal worker you are required to complete a 4 to 5 year (9000 hrs) apprenticeship program. To be eligible for the program have a minimum of Grade 10. Inter-provincial Red Seal Certificate available.

Also Known As:

- *Sheet metal fabricator*
- *Sheet metal mechanic*
- *Tinsmith*

Contacts:

Sheet Metal Workers' International Association Local 562

3 Forwell Rd.
Kitchener, ON N2B 1W3
Tel: (519) 744-7072
Toll Free: (800) 554-5575
www.smwialocal562.ca

Canadian Institute of Steel Construction

3760 14th Avenue, Suite 200
Markham, ON L3R 3T7
Tel: (905) 946-0864
Website: www.cisc-icca.ca



SKI LIFT MECHANIC

Sector: Industrial

NOC/MTCU: 7311/297A

The Deal:

The Ski Lift Mechanic installs, inspects, repairs and maintains ski lifts and associated equipment to the standard required by safety regulations and to the level of operational effectiveness required by the business.

The Scene:

Requires working outside in cold temperatures.

The Facts:

To become a Ski Lift Mechanic you are required to take a 5520 hour apprenticeship program. To be eligible you must have a Grade 12 education.

Also Known As:

- *Industrial mechanic*
- *Maintenance millwright*
- *Ski lift technician*

SMALL ENGINE TECHNICIAN

Sector: Motive Power

NOC/MTCU: 7335/435A

The Deal:

Working as a Small Engine Technician involves repairing and testing a variety of gasoline and diesel-powered equipment such as lawn mowers, outboard motors and snowmobiles. Communication skills are also very important as you may discuss with customers problems and preventative maintenance for their machines.

The Scene:

A Small Engine Technician works the standard forty-hour work week with the possibility of shift work. Heavy lifting, bending and standing can be expected as well as business booming in the summer while slowing down for the winter months.

The Facts:

It will take 4520 hours to complete this apprenticeship program. To be involved in this apprenticeship program you must have completed Grade 12.



Also Known As:

- *Lawn & garden equipment technician*
- *Lawn mower repairer, gasoline powered*
- *Outboard motor mechanic*
- *Small equipment repairer*

SPECIAL EVENTS COORDINATOR

Sector: Service

NOC/MTCU: 1226/297B

The Deal:

You will need to have an eye for detail and be extremely organized for this trade as it involves organizing, planning and the delivery of events such as weddings, meetings, tradeshow, dinners, sporting events, festivals, and conferences.

The Scene:

Work is performed both indoors and outdoors.

The Facts:

It will take 5000 hours, which includes 350 hours of in-class training to complete this apprenticeship program. To be eligible you must have a Grade 12 education.

Also Known As:

- *Conference & meeting planner*
- *Convention coordinator*
- *Event planner*
- *Festival organizer*
- *Trade show planner*

SPRINKLER AND FIRE PROTECTION INSTALLER

Sector: Construction

NOC/MTCU: 7252/427A

The Deal:

A Sprinkler and Fire Protection Installer lays out, assembles, installs, tests, and maintains high and low pressure piping to supply fire protection systems in commercial, residential, and industrial buildings. They also prepare the pipes and fittings for these systems.

Also Known As:

- *Fire sprinkler fitter*
- *Pipefitter*
- *Sprinkler system fitter*
- *Steamfitter*

The Scene:

Work can be found in commercial, residential, or industrial buildings.

The Facts:

To become a Sprinkler and Fire Protection Installer, you must complete a 7200 hour apprenticeship program. The minimum academic requirement for this program is Grade 10. To prepare yourself for this apprenticeship you should take English, Math, and Science. Inter-provincial Red Seal Certificate available.



STEAMFITTER

Sector: Construction

NOC/MTCU: 7252/307A

The Deal:

Steamfitters assemble, install, maintain, and repair any heating, cooling systems, or industrial systems. These systems convey gases, employ pneumatic tubing, involve air handling, and form the infrastructure of oil refineries and nuclear power plants. You can specialize as a sprinkler system fitter, sprinkler system installer, or steamfitter.

Also Known As:

- *Pipefitter-steamfitter*
- *Fire sprinkler fitter*
- *Marine pipefitter*
- *Pipefitter*
- *Sprinkler system fitter*

The Scene:

You can expect to work both indoors and outdoors. You must be aware of potential dangers of scaffolding (heights), rigging and working in and around trenches. Safety is a high priority on the job.

The Facts:

It takes 5 years (9000 hours) to complete the full apprenticeship for this trade. You must have a minimum of Grade 10. There is some overlap between a Plumber and a Steamfitter. Inter-provincial Red Seal Certificate available.

Contacts:

Plumbers & Steamfitters UA Local 527

225 Frobisher Drive
Waterloo, ON N2V 2G4
Tel: (519) 746-3300
www.ua527.com

Ontario Pipe Trades Council

Confederation Square
45 Goderich Rd., Suite 2003
Hamilton, ON L8E 4W8
Tel: (905) 573-3703
Website: www.optc.org

SURFACE BLASTER

Sector: Industrial

NOC/MTCU: 7372/278B

The Deal:

Handles, stores, transports and uses explosives and accessories in a variety of construction sites.

The Scene:

Work is performed outdoors at various sites.

The Facts:

To complete this apprenticeship program will take about 2 years (2240 hours). To be eligible you must have completed Grade 12.

Also Known As:

- *Blaster, construction*
- *Blaster - surface mining*
- *Driller, construction*
- *Foundation drill operator*
- *Open-pit blaster*



SURFACE MOUNT ASSEMBLER

Sector: Industrial

NOC/MTCU: 9483/630B

The Deal:

A Surface Mount Assembler solders, bonds, or assembles various electronic components such as transistors, diodes, capacitors, integrated circuits, wires, and other electronic parts.

The Scene:

You could be employed by an electronics manufacturing plant. Progression to electronics inspector or tester is possible with additional training and experience.

The Facts:

To be a Surface Mount Assembler you must complete a 5000 hour apprenticeship program. In order to be eligible for this apprenticeship program you must have complete Grade 12. A concentration in English, Math, and Physics is an asset.

Also Known As:

- *Capacitor assembler*
- *Circuit board assembler*
- *Inspector, printed circuit board (PCB) assembly*
- *Precision instrument assembler - electronic equipment manufacturing*

TERRAZZO, TILE, AND MARBLE SETTER

Sector: Construction

NOC/MTCU: 7283/241A

The Deal:

Terrazzo, Tile and Marble Setters install terrazzo, tile, granite, and marble slabs on floors and walls.

The Scene:

Employment could be with construction companies and masonry contractors.

The Facts:

To become a Terrazzo, Tile, and Marble Setter you must complete a 5600 hour apprenticeship program. To be eligible for the program you must have at least a Grade 10 education with academic English and Math. Inter-provincial Red Seal Certificate available.

Also Known As:

- Ceramic tile installer
- Marble setter
- Terrazzo polisher
- Terrazzo worker
- Tile installer



THIN FILM TECHNICIAN

Sector: Industrial

NOC/MTCU: 222F Under Revision

This is a specialized trade. Contact MTCU Apprenticeship Branch for more information.

Also Known As:

- Optical film technician

Contacts:

Ministry of Training of Colleges and Universities - Apprenticeship Branch

Owen Sound Area Office

1400 1st Ave W, Ste 4,

Owen Sound, N4K 6Z9

Tel: (519) 376-5790

Toll Free: (800) 838-9468

Kitchener Area Office

4275 King St E, Suite 200,

Kitchener, ON N2P 2E9

Tel: (519) 653-5758

Toll Free: (866) 877-0099

www.tcu.gov.on.ca

TIRE RIM & WHEEL MECHANIC

Sector: Motive Power

NOC/MTCU: 7321/295A

The Deal:

These mechanics are responsible for the repair of tires, rims and wheels on motorcycles, all terrain vehicles, trailers, cars, trucks, farm tractors and other vehicles.

Also Known As:

- *Automotive service technician*
- *Bus mechanic*
- *Truck and transport mechanic*

The Scene:

Work is performed indoors.

The Facts:

It will take 3700 hours to complete this apprenticeship program. To be eligible you must have completed Grade 12.



TOOL & CUTTER GRINDER

Sector: Industrial

NOC/MTCU: 9511/602C

The Deal:

This trade requires the set up and operation of various grinding machines. Repairs and or modifications to specialty tools are also performed.

Also Known As:

- *Machining tool operator*
- *Milling machine set-up operator*
- *Production gear cutter*
- *Production grinder operator - metal machining*

The Scene:

Work is performed indoors.

The Facts:

It will 3760 hours to complete this apprenticeship program. To be eligible you must have completed Grade 12.

TOOL & DIE MAKERS/TOOLING MAKERS

Sector: Industrial

NOC/MTCU: 7232/430A/630T

The Deal:

Tool and Die makers design, make, modify, and repair dies, forms cutting tools, gauges, jigs, and fixtures for the stamping industry. Math is a big part of this trade as you will need to measure, calculate and conduct precision machining.

The Scene:

What you can expect in Tool and Die is work that is performed indoors in industrial settings such as automobile manufacturing. The work can be repetitive but CNC machines are used to perform long production runs.

The Facts:

To Become a Tool and Die maker you must complete a 7280 hour apprenticeship program. To be eligible for the program you must have a minimum of Grade 12. Inter-provincial Red Seal Certificate available.

Also Known As:

- *Die finisher*
- *Jig maker*
- *Metal mould maker*
- *Metal patternmaker*
- *Mould maker - plastics processing*

Contacts:

International Association of Machinists & Aerospace Workers

15 Gervais Drive, Suite 707
North York, ON M3C 1Y8
Tel: (416) 386-1789
Website: www.iamaw.ca

Canadian Tooling & Machining Association

140 McGovern Drive, Unit #3,
Cambridge, ON N3H 4R7
Tel: (519) 653-7265
Website: www.ctma.com



TOOL & GAUGE INSPECTOR

Sector: Industrial

NOC/MTCU: 7231/239B

The Deal:

As a Tool & Gauge Inspector, you would inspect, test and adjust new and reworked tools, dies, gauges, jigs and fixtures.

The Scene:

Work will be done both indoors and outdoors.

The Facts:

It takes 3830 hours to complete this apprenticeship program. To be eligible you must have completed Grade 12.

Also Known As:

- *Machine shop inspector*
- *Machined parts inspector*
- *Machining inspector*
- *Tooling inspector*

TRACTOR TRAILER COMMERCIAL DRIVER

Sector: Industrial

NOC/MTCU: 7411/638A

The Deal:

As a Tractor-Trailer Commercial Driver you will be required to work non-standard hours and have an excellent driving record. You will be traveling both short and long distance trips, and have a good sense of spatial orientation.

The Scene:

Work is performed outdoors.

The Facts:

For this apprenticeship program you are required to complete 2000 hours. To be eligible you must be 18 years of age and completed Grade 10.

Also Known As:

- Bulk goods truck driver
- Dump truck driver
- Flatbed truck driver
- Logging truck driver
- Long haul truck driver



TRANSMISSION TECHNICIAN

Sector: Motive Power

NOC/MTCU: 7321/310D

The Deal:

A Transmission Technicians job includes repairs, overhauls, inspections and maintenance of manual and automatic transmissions in cars, trucks and buses.

The Scene:

There are a great variety of problems to solve and tasks to perform in this trade. You will be diagnosing, estimating, repairing and maintaining complicated components for vehicles.

The Facts:

To become a Transmission Technician you must complete a 6000 hour apprenticeship program. To be eligible for the program you must have a minimum of Grade 12.

Also Known As:

- Automotive service technician
- Truck and transport mechanic
- Truck-trailer repairer

Contacts:

Canadian Auto Workers (CAW)

National Office

205 Placer Court

Toronto, ON M2H 3H9

Tel: (416) 497-4110

(800) 268-5763

Fax: (416) 495-6559

Website: www.caw.ca

TRUCK AND COACH TECHNICIAN

Sector: Motive Power

NOC/MTCU: 7321/310T

The Deal:

Truck and Coach Technicians disassemble, adjust, repair and reassemble everything from engines to transmissions. They also diagnose and correct faults in alignments of wheels and steering, suspension systems, electrical systems, emission control and engine management systems, as well as air conditioning and refrigeration/heating systems.

Also Known As:

- *Automotive service technician*
- *Truck and transport mechanic*
- *Truck-trailer repairer*

The Scene:

Truck and Coach Technicians usually work indoors. Some physical strength is necessary. These tradespeople are usually in high demand and the future is bright due to increasing use of trucks for shipping materials.

The Facts:

To become a Truck and Coach Technician you are required to complete a 6000 hour apprenticeship program. To be eligible for the program you must have a minimum of Grade 12. Inter-provincial Red Seal Certificate available.



TRUCK TRAILER SERVICE TECHNICIAN

Sector: Motive Power

NOC/MTCU: 7321/310J

The Deal:

These Technicians repair, overhaul, inspect and maintain suspension, brake, electrical, refrigeration, landing gear and couplers on single or multi-axle trailers.

Also Known As:

- *Automotive service technician*
- *Truck and transport mechanic*
- *Truck-trailer repairer*

The Scene:

Work is performed indoors and requires some lifting. You may find yourself working on 'reefers' (refrigerated trailers) or fixing an 18 wheeler.

The Facts:

To become a Truck and Trailer Service Technician you are required to complete a 4000 hour apprenticeship program. To be eligible for the program you must have a minimum of Grade 12. Inter-provincial Red Seal Certificate available.

TURF EQUIPMENT TECHNICIAN

Sector: Motive Power

NOC/MTCU: 7335/421C

The Deal:

These technicians are responsible for the diagnoses, maintenance and repair all the parts of mowers, trimmers, leaf blowers (including golf carts). This includes sharpening mower blades to repairing diesel engines to fixing brake lines.

The Scene:

Work is performed both indoors and outdoors.

The Facts:

It will take 5000 hours to complete this apprenticeship program. To be eligible you must have completed Grade 12.

Also Known As:

- *Lawn and garden equipment technician*
- *Lawn mower repairer, gasoline powered*
- *Small equipment repairer*



WATER WELL DRILLER

Sector: Industrial

NOC/MTCU: 7373/605B

The Deal:

This trade requires the operation of a truck-mounted drilling jig and support equipment to drill water wells for residential, commercial or industrial customers.

The Scene:

Work is performed outdoors.

The Facts:

It will take 4520 hours to complete this apprenticeship program. To be eligible you must have completed Grade 12.

Also Known As:

- *Cable tool driller - water well*
- *Churn drill operator - water well*

WELDER/PRESSURE SYSTEMS WELDER

Sector: Industrial

NOC/MTCU: 7265/456A/P

The Deal:

Welders operate equipment to weld ferrous and non-ferrous metals. (Ferrous= metal containing iron) Welders may specialize in certain types of welding such as custom fabrication, ship building and repair, aerospace and underwater precision welding, pressure welding and structural welding.

The Scene:

A mechanical ability and good hand/eye coordination is required. Close visual acuity is recommended. You should be aware that Welders come in contact with heat and machinery, so it can get 'hot' on the job.

The Facts:

You can become a certified Welder by completing a 5280 hour (Pressure Systems Welder: 3520 hours) apprenticeship program. To be eligible you must have completed Grade 12. Inter-provincial Red Seal Certificate available.

Also Known As:

- *Aviation Welding Technician*
- *Brazing Machine Operator*
- *Brazing Machine Setter*
- *Electric Arc Welder*
- *Pressure Vessel Welder*

Contacts:

Canadian Welding Bureau (CWB)

8260 Parkhill Drive
Milton, ON L9T 5V7
Tel: (800) 844-6790
Website: www.cwbgroup.org

Technical Standards and Safety Authority (TSSA)

Toronto, ON
Tel: (416) 734-3300
1- 877- 682- 8772
Website: www.tssa.org



WOODEN BOAT REBUILDER/REPAIRER

Sector: Service

NOC/MTCU: 7271/211W

The Deal:

This trade involves everything from the building and repairing of wooden boats to sketching the layout, designing, selecting woods and veneers, fabricating fastenings, joining boat components, and assembling, finishing and surfacing boat components. You will also operate both computer-assisted design systems and wood cutting equipment.

The Scene:

Work is performed both indoors and outdoors.

The Facts:

It will take 8000 hours to complete this apprenticeship program. To be eligible you must have completed Grade 12.

Also Known As:

- *Journeyman/woman carpenter*
- *Rough carpenter*

GLOSSARY/TERMS

Trade Name

This column is based on the National Occupational Classification (NOC). The column identifies the specific name for each trade.

ACA (Apprenticeship and Certification Act)

This refers to one of the two acts that regulate the trades. The ACA has 2 categories.

1. **Unrestricted** - Most trades are in this category. You do not have to be licensed to work in this field
2. **Restricted** - It means you must be registered (sponsored) to go into these trades.

TQAA (Trades Qualifications and Apprenticeship Acts)

This refers to the second of two acts that regulate the trades. The TQAA is primarily focused on the construction trades. The TQAA has 2 categories as well:

1. **Voluntary** - You do not have to be licensed to work in the trade
2. **Compulsory** - You must be a licensed journeyman or registered apprentice to work in the trade.

In October 2009, the Ontario government passed the Ontario College of Trades and Apprenticeship Act, 2009. This act, which established the Ontario College of Trades is proposed to replace the TQAA and the ACA by 2012.

Training Hours

This column specifies the length of apprenticeship time you must complete to be at the journeyman status. Your hours are tracked from the time you register as an apprentice. The total hours are usually a combination of in-class training and on-the-job work experience.

The following table will also give you an idea of 'potential' wages that you can earn in that trade.

Trade Union Wage Rates (Ontario)

This category provides current wage rates for workers who are members of a trade union.

Provincial (Ontario) Wage Rate

These wage ranges are based on information derived from a variety of reliable sources and reflect Ontario rates in general.

Federal Fair Wage Rate

This is a federal program that states trades people who work on Government of Canada projects must be paid fair wages. The Labour Program of *Human Resources and Skills Development Canada* (HRSDC) is responsible for monitoring the program to make sure that the legislation is followed.

Trade	ACA	TQAA	Training Hours	Trade Union Wage Range	Provincial Wage Rates (Average)	Federal Fair Wage Rate
Aboriginal Early Childhood Educator	U		6480		\$10.50-\$21.60 (\$15.45)	
Agricultural Equipment Technician	U		6280	\$32.00	\$17.00-\$32.00 (\$24.50)	\$23.04*
Agriculture – Dairy Herdsperson	U		5520		(\$15.00)	
Fruit Grower	U		5520		(\$15.00)	
Swine Herdsperson	U		5520		(\$15.00)	
Aircraft Maintenance Mechanic	U		7200		(\$30.00)	
Alignment & Brakes Technician	R		5400		\$14.00-\$25.00 (\$19.50)	
Appliance Service Technician	U		5280		\$11.00-\$25.00 (\$17.50)	
Arborist/ Utility Arborist	U		5400 (Utility 5340)		\$13.00-\$20.00 (\$15.90)	
Architectural Glass & Metal Technician		V	8000	\$18.00-\$34.00	\$18.00-\$22.00 (\$20.00)	\$28.49
Auto-Body & Collision Damager Repairer-Br.1/Auto-Body Repairer-Br.2	R		Br1 7280 Br2 5520		\$11.00-\$25.00 (\$17.40)	
Automotive Glass Technician	U		3760		\$10.25-\$24.00 (\$15.70)	
Automotive Painter	U		4560		\$10.25-\$24.00 (\$15.70)	
Automotive Service/ Electronic Accessory Technician	R		Serv Tech 6500 Elect Acc 3000	\$22.00	\$10.25-\$24.00 (\$15.70)	
Baker/ Patissier	U		5280 (Patissier 6130)		\$11.00-\$15.00	
Bearings Mechanic	U		5760	\$22.00	\$10.25-\$24.00 (\$15.70)	
Blacksmith	U		5280		\$14.00-\$33.00 (\$19.45)	
Boilermaker		V	6600	\$34.15	\$20.90-\$38.70 (\$31.40)	\$28.77
Brick & Stone Mason		V	5600	\$34.16	\$16.00-\$34.30 (\$24.85)	\$29.78
Cabinet Maker	U		7280		\$16.00-\$22.00 (\$19.00)	

Trade	ACA	TQAA	Training Hours	Trade Union Wage Range	Provincial Wage Rates (Average)	Federal Fair Wage Rate
Carpenter (General)		V	3844-7200	\$31.88	\$12.50-\$31.20 (\$19.45)	\$21.01
Cement Finisher		V	4500	\$28.85	\$16.50-\$32.00 (\$26.25)	\$19.51
Cement Masons		V	6000	\$28.85	\$16.50-\$32.00 (\$26.25)	\$19.51
Chef	U		2260		\$20.00-\$30.00	
Child & Youth Worker	U		6240		\$12.00-\$25.55 (\$18.85)	
CNC Programmer	U		24 months		\$15.30-\$27.45 (\$22.25)	
Composite Structure Technicians	U		5700		(\$30.00)	
Concrete Pump Operator	U		3000		\$11.00-\$25.00 (\$16.00)	
Construction Craft Worker	U		2400	\$11.00-\$27.00	\$11.00-\$25.00 (\$16.00)	\$17.45
Cook	U		Assist Br1 2640 Br2 5280		\$10.25-\$15.00 (\$10.95)	
Developmental Services Worker	U		3720		\$12.00-\$25.55 (\$18.85)	
Die Designer	U		24 months		\$17.62-\$28.33	
Draftsperson-Mechanical, Plastic Mould Design or Tool & Die Design	U		7400		(\$23.00)	
Drywall Acoustics & Lather Applicator, Plasterer & Finisher		V	5400	\$29.60	\$15.00-\$34.00 (\$25.20)	\$29.04
Early Childhood Educator	U		5280		\$10.50-\$21.60 (\$15.45)	
Early Childhood Educators - Inclusion Practices	U		2640		\$10.50-\$21.60 (\$15.45)	
Educational Assistant	U		2268		\$17.80-\$23.00 (\$20.60)	
Electric Motor System Technician	U		7520		\$11.00-\$19.00 (\$16.00)	
Electrical Control (Machine) Builder	U		5400		\$11.00-\$24.00 (\$17.40)	
Electrician, Construction & Industrial	U	C	7200-9000	\$32.88	\$12.00-\$34.90 (\$22.40)	\$33.22*

Trade	ACA	TQAA	Training Hours	Trade Union Wage Range	Provincial Wage Rates (Average)	Federal Fair Wage Rate
Electrician (Signal maintenance) (TCC)	U		Under revision		\$14.00-\$37.50	
Electronics Service Technician	U		7280		(\$20.00)	
Elevating Devices Mechanic	U		7280		(\$20.00)	\$43.29
Entertainment Industry Power Technician	U		4520		\$12.60-\$36.25	
Exterior Insulated Finishing Systems Mechanic	U		3600	\$15.50 to start	\$15.00-\$34.75 (\$25.80)	\$30.63
Facilities Mechanic	U		5520		\$11.00-\$24.90	
Facilities Systems Technician	U		7280		\$11.00-\$24.91	
Fitter Welder	U		6000	\$14.00-\$32.00	\$14.00-\$33.00 (\$19.45)	\$31.28
Fitter-Assembler (Motor assembly)	U		7520		\$15.55-\$20.75 (\$17.60)	
Floor Covering Installer		V	6000	\$12.00-\$28.00	\$18.00-\$28.00 (\$23.00)	\$39.06
Fuel & Electrical Systems Technician	R		6500		\$10.25-\$24.00 (\$15.70)	
Gemsetter/Goldsmith	U		7520		(\$12.50)	
Hairstylist	R		3020 (2000-grads of 1500hr progs)		\$10.25-\$15.00 (\$11.00)	
Hardware, Lumber & Building Materials Retailer	U		4212		\$10.25-\$14.65 (\$10.70)	
Hazardous Materials Worker	U		2898		(\$15.00-\$24.00)	
Heat and Frost Insulator		V	6400	\$34.97	\$15.00-\$34.75 (\$25.80)	\$30.63
Heavy Duty Equipment Technician	U		6280	\$32.00	\$17.00-\$32.00 (\$24.50)	\$23.04*
Heavy Equipment Operator (Dozer, Excavator, Tractor Loader Backhoe)	U		2260	\$32.14	\$15.00-\$30.35 (\$20.65)	\$21.66
Hoisting Engineer (Mobile Crane Operator Br 1 & Br 2)		C	Br1 6000 Br2 1000	\$33.34	\$22.00-\$34.00 (\$28.00)	\$32.07*

Trade	ACA	TQAA	Training Hours	Trade Union Wage Range	Provincial Wage Rates (Average)	Federal Fair Wage Rate
Hoisting Engineer-Tower Crane Operator Br 3		C	3000		\$29.48-\$37.13 (\$33.30)	\$33.60*
Horse Groom	U		3598		\$10.25-\$14.50	
Horse Harness Maker	U		7400		\$10.25-\$19.80 (\$14.05)	
Horticultural Technician	U		5400		\$13.00-\$20.00 (\$15.90)	
Hydraulic/Pneumatic Mechanic	U		7400	\$13.00-\$32.00	\$14.50-\$31.50 (\$23.25)	\$23.04
Information Technology Hardware Technician	U		6420		\$14.00-\$31.00 (\$20.25)	
Information Technology Network Tech	U		6340		\$16.00-\$35.15 (\$24.40)	
Information Technology - Contact Centre: Inside Sales Agent	U		3730		\$10.25-\$26.00	
Information Technology - Contact Centre: Customer Care Agent	U		3730		\$10.25-\$26.00	
Information Technology - Contact Centre: Technical Support Agent	U		3400		\$10.25-\$26.00	
Instrumentation & Control Technician	U		7280		\$16.90-\$36.70 (\$25.90)	
Iron Worker		V	Br1 8000 Br2 6000	\$35.60	\$28.00-\$37.00 (\$32.50)	\$27.55
Light Rail Overhead Contact Systems Linesperson (TTC)	U		6000		(\$18.55)	
Locksmith	U		6000		\$11.50-\$26.00 (\$17.80)	
Machinist (General)	U		7280		\$15.00-\$28.20 (\$21.85)	
Machine Tool Builder and Integrator	U		7280		(\$25.80)	
Marine Engine Technician	U		4280		\$10.25-\$20.00	
Metal Fabricator (Fitter)		U	4680		\$19.00-\$37.00 (\$21.00)	\$15.00-\$27.35 \$27.55

Trade	ACA	TQAA	Training Hours	Trade Union Wage Range	Provincial Wage Rates (Average)	Federal Fair Wage Rate
Micro Electronics Manufacturer	U		4000		\$10.50-\$20.00 (\$14.50)	
Millwright - Construction		V	8000		\$16.50-\$34.00 (\$25.00)	\$22.00
Millwright - Industrial Mechanic	U		7280		\$16.50-\$34.00 (\$25.00)	
Motive Power Machinist	U		5340		\$14.50-\$26.50 (\$21.20)	
Motorcycle Technician	R		5550		\$13.00-\$29.00	
Mould Maker	U		7280		\$17.00-\$32.65 (\$25.60)	
Mould Maker-Designer	U		24 months		\$15.00-\$25.00	
Mould Maker-Die Finisher	U		3760		\$15.00-\$25.00	
Native Clothing & Crafts Artisan	U		3520		\$10.25-\$18.70 (\$13.40)	
Native Residential Construction Worker	U		4000	\$11.00-\$27.00	\$11.00-\$25.00 (\$16.00)	\$17.45
Network Cabling Specialist	U		4000		\$13.00-\$28.65 (\$18.65)	
Optics Technician (Lens & Prism Maker)	U		8000		\$10.50-\$23.35 (\$15.80)	
Packaging Machine Mechanic	U		7840		\$16.50-\$34.00 (25.00)	
Painter & Decorator - Br1 Commercial & Residential - Br2 Industrial P&D		V	6000	\$28.98	\$12.00-\$21.25 (\$16.10)	\$24.44
Parts Technician	U		5460		\$10.25-\$23.00 (\$15.00)	
Pattern Maker	U		7280		\$17.00-\$32.65	(\$25.60)
Plumber		C	9000	\$32.27	\$13.00-\$33.80 (\$21.30)	\$31.64*
Pool and Hot Tub/ Spa Service Tech/ Installer	U		5520		\$11.35-\$18.50 (\$15.25)	
Powered Lift Truck Transmission	U		6280		\$10.28-\$20.84	
Powerline Technician		V	8000	\$18.00-\$34.00	(\$30.00)	

Trade	ACA	TQAA	Training Hours	Trade Union Wage Range	Provincial Wage Rates (Average)	Federal Fair Wage Rate
Precast Concrete Erector/Finisher		V	Erector 5400 Finisher 4500	\$14.00-\$32.00	\$16.50-\$32.00 (\$26.25)	\$19.51
Precision Metal Fabricator	U		8000	\$15.00-\$34.00	\$12.00-\$32.65 (\$21.95)	\$28.64*
Process Operator: Refinery, Chem & Liquid, Processes; Power; and Food Manufacturing	U		6480 (Food 4300)		\$14.55-\$30.85 (22.55)	
Pump Systems Installer	U		4000		\$16.50-\$34.00 (\$25.00)	
Railway Car Technician	U		7280		\$15.00-\$25.00	
Recreation Vehicle Technician	U		6280		\$11.50-\$26.00 (\$17.80)	
Refrigeration and Air Conditioning Systems Mechanic		C	9000		\$15.00-\$38.25 (\$26.63)	\$28.91*
Reinforcing Rodworker		V	4000	\$31.96	\$20.25-\$36.00 (\$30.40)	\$28.73
Relay and Instrumentation Technician	U		7680	\$20.50-\$36.40	(\$28.75)	
Residential Air Conditioning Systems Mechanic		C	4500	\$14.50-\$33.80 \$14.00-\$32.00	(\$22.80)	\$28.91*
Restoration Mason		V	6000	\$17.00-\$35.00	\$16.00-\$34.30 (\$24.85)	\$29.78
Retail Meat Cutter	U		3460		(\$14.64)	
Roll Grinder/Turner	U		5760		\$13.00-\$24.60 (\$18.75)	
Roofer		V	4000	\$31.67	\$13.00-\$25.00 (\$17.80)	\$20.55
Saddlery	U		5440		\$10.25-\$19.80 (\$14.05)	
Saw Filer/Fitter	U		8000		\$11.50-\$26.00 (\$17.80)	
Sheet Metal Worker		C	9000	\$34.01	\$12.00-\$32.65 (\$21.95)	\$28.64*
Ski Lift Mechanic	U		5520		\$16.50-\$34.00 (\$25.00)	
Small Engine Technician	U		4520		\$10.25-\$20.00 (\$16.50)	
Special Events Coordinator	U		5000		\$12.70-\$28.30 (\$19.40)	

Trade	ACA	TQAA	Training Hours	Trade Union Wage Range	Provincial Wage Rates (Average)	Federal Fair Wage Rate
Sprinkler and Fire Protection Installer		V	7200		\$16.00-\$38.00 (\$27.00)	\$33.73
Steamfitter		C	9000		\$22.00-\$36.00 (\$29.00)	\$31.28*
Surface Blaster	U		2240		\$17.70-\$30.75 (\$23.70)	
Surface Mount Assembler	U		5000		\$10.50-\$20.00 (\$14.50)	
Terrazzo, Tile, and Marble Setter		V	5600	\$16.00-\$33.00	\$15.00-\$28.00 (\$21.50)	\$27.26
Thin Film Technician	U		8000		\$22.00-\$25.00	
Tire Rim & Wheel Mechanic	U		3700		\$10.25-\$24.00 (\$15.70)	
Tool & Cutter Grinder	U		3760		\$13.00-\$24.60 (\$18.75)	
Tool & Gauge Inspector	U		3830		\$14.50-\$26.50 (\$21.20)	
Tool and Die Makers	U		7280		\$17.62-\$28.33	
Tractor Trailer Commercial Driver	U		2000	\$27.93	\$14.00-\$21.45 (\$17.25)	\$19.21
Transmission Technician	R		6000		\$10.25-\$24.00 (\$15.70)	
Truck and Coach Technician	R		6000		\$10.25-\$24.00 (\$15.70)	
Truck Trailer Service Technician	R		4000		\$10.25-\$24.00 (\$15.70)	
Turf Equipment Technician	U		5000		\$12.00-\$22.00	
Water Well Driller	U		4520		(\$20.00)	
Welder	U		5280	\$14.00-\$32.00	\$14.00-\$33.00 (\$19.45)	\$35.82
Wooden Boat Rebuilder/Repairer	U		8000		\$12.50-\$31.20 (\$19.45)	

*Denotes a compulsory trade: a trade license or apprenticeship registration valid in Ontario is required to work in the occupation.

INTER-PROVINCIAL RED SEAL TRADE

The Inter-Provincial Red Seal is like a passport. It gives Skilled Trades People the ability to travel across Canada and practice their trade without having to write an exam for each province. An Inter-Provincial exam must be written, and you must be in a designated “Red Seal” trade to qualify. In the following chart, ✓ means that the trade falls under the Red Seal program.

The Red Seal logo is the property of, and used by permission of, the *Canadian Council of Directors of Apprenticeship (CCDA)* Red Seal Contact: Human Resources Partnership Directorate Human Resources Development Canada, 140 Promenade du Portage, Phase IV, Hull, Québec K1A 0J9 Website: www.red-seal.ca



TRADE NAME	NL	NS	PE	NB	QC	ON	MB	SK	AB	BC	NT	YT	NU
Agricultural Equipment Technician	✓	✓	✓	✓		✓	✓	✓	✓	✓			
Appliance Service Technician	✓	✓	✓	✓		✓			✓	✓	✓		✓
Automotive Painter	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
Automotive Service Technician	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
Baker	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓
Boilermaker	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Bricklayer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	
Cabinetmaker	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Carpenter	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Concrete Finisher	✓	✓	✓	✓	✓		✓		✓	✓			
Construction Craft Worker	✓	✓	✓		✓	✓	✓	✓	✓				
Construction Electrician	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cook	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Electric Motor System Technician	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓	✓
Electronic Technician (Consumer Products)	✓	✓	✓	✓		✓				✓		✓	
Floorcovering Installer	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓
Glazier	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hairstylist	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Heavy Duty Equipment Technician	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Industrial Electrician	✓	✓	✓	✓	✓	✓	✓			✓		✓	
Industrial Mechanic (Millwright)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Instrumentation & Control Technician	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
Insulator (Heat & Frost)	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
Ironworker (Generalist)	✓	✓	✓	✓		✓	✓		✓	✓			
Ironworker (Reinforcing)	✓	✓	✓	✓	✓	✓		✓	✓	✓			
Ironworker (Structural/Ornamental)	✓	✓	✓	✓		✓		✓	✓	✓			
Landscape Horticulturist	✓	✓		✓	✓	✓	✓	✓	✓	✓			
Lather (Interior Systems Mechanic)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	
Machinist	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Metal Fabricator (Fitter)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Mobile Crane Operator	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Motor Vehicle Body Repairer (Metal & Paint)	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
Motorcycle Mechanic	✓	✓	✓	✓		✓			✓	✓			
Oil Heat System Technician	✓	✓	✓	✓						✓	✓	✓	✓
Painter & Decorator	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

TRADE NAME	NL	NS	PE	NB	QC	ON	MB	SK	AB	BC	NT	YT	NU
Partsperson	√	√	√	√		√	√	√	√	√	√	√	√
Plumber	√	√	√	√	√	√	√	√	√	√	√	√	√
Powerline Technician	√	√	√	√		√		√	√	√	√	√	√
Recreation Vehicle Service Technician	√	√	√	√	√	√	√		√	√		√	
Refrigeration & Air Conditioning Mechanic	√	√	√	√	√	√	√	√	√	√	√	√	√
Rig Technician	√	√	√					√	√	√	√		
Roofer	√	√	√	√	√	√	√	√	√	√	√	√	√
Sheet Metal Worker	√	√	√	√	√	√	√	√	√	√	√	√	√
Sprinkler System Installer	√	√	√	√	√	√	√	√	√	√	√	√	√
Steamfitter/Pipefitter	√	√	√	√	√	√	√	√	√	√	√	√	√
Tilesetter	√	√	√	√	√	√		√	√	√			
Tool & Die Maker	√	√	√	√	√	√	√		√	√			
Transport Trailer Technician	√	√	√	√		√	√			√		√	
Truck & Transport Mechanic	√	√	√	√		√	√	√	√	√		√	
Welder	√	√	√	√	√	√	√	√	√	√	√	√	√

Source: Ellis Chart



FINANCIAL SUPPORT

Loans for Tools Program

This program offers new apprentices a loan to help them buy the tools and equipment they need for their trade. The program recognizes that the cost of tools and equipment varies from trade to trade, so there are maximum loans available in each sector. This is an *interest-free* loan for the duration of the apprentice's training. It allows participants to invest in their own skills training – giving them a stake in making it work.

The Ministry of Training, Colleges and Universities (MTCU) will automatically send a 'Loans for Tools' information package to each apprentice when they register. To apply for a loan, apprentices should complete the loans agreement in the package completely and accurately, then send it back to the ministry in the return envelope provided. The ministry will respond within 60 days of receiving the signed loans agreement. For more information, please call toll-free: 1-800-313-1746, or TTY 1-866-533-6339.

Apprenticeship Scholarship

This \$1000 scholarship is geared toward those who are participating in an apprenticeship program. The participant must be under the age of 25, completed his or her academic upgrading, is employed and is registered as an apprentice.

Non-EI-Eligible Apprentices

This support offers grants, up to \$1500 per term, to apprentices who are not eligible for employment insurance to help cover their costs while they attend school.

Tradesperson's Tool Deduction

This tax deduction of up to \$500 helps employed apprentices cover costs of new tools.

Apprenticeship Incentive Grant (AIG)

This taxable cash grant (\$1000/yr) is available to registered apprentices. The criteria is that the registered apprentice must have successfully completed the first or second year or level of their program in a Red Seal trade.

Apprenticeship Completion Grant

This taxable cash grant of \$2000 is available to apprentices who have successfully completed their training and have received their certification in a Red Seal trade.

Apprenticeship Completion Bonus in Non-Red Seal Trades

This taxable benefit (one-time of \$2000) to those apprentices who complete their training and receive their certification in a non-Red Seal trade.

For more information on the above noted visit:
www.edu.gov.on.ca/eng/tcu/employmentontario/training/financial.html

***There are also financial incentives for employers/sponsors as well.
For more information contact your local Apprenticeship branch.***

WORK SMART – WORK SAFE

Workplace Safety & Insurance Board (WSIB)

Every year there are many preventable injuries that occur on the job site. These injuries can happen when people either don't know their rights or are inattentive. Know your rights and responsibilities and help protect yourself.

Your Rights

When it comes to health and safety, you have three basic rights:

- **The Right to Know**
If there are unsafe materials used in your workplace, you have the right to know about them. The same goes for dangerous machinery or anything else that can make you ill or hurt you on the job. Don't be afraid to ask questions - even when you're just being interviewed for a job.
- **The Right to Participate**
You have the right to participate in health and safety inspections and recommendations in your workplace, either through your worker health and safety representative or your joint health and safety committee. You also have the right to participate in health and safety training.
- **The Right to Refuse**
If you think the work you do and/or the equipment you use are not safe, you can stop doing it. And no one can suspend you, fire you or dock your pay. You have the right to refuse unsafe work. It's the law.

Your Responsibilities

- **Work Smart, Work Safe**
Always think safety first. Don't fool around on the job. You are responsible for yourself and your co-workers' safety.
- **Report Unsafe Conditions**
If you see anything that looks wrong, broken or faulty tell your boss - immediately! Don't wait for an accident to happen.
- **Dress for the Job**
If your job requires protective equipment or clothing, then wear it. Make sure it's the proper fit and get trained in using and maintaining it. Maybe it's not comfortable or cool looking, but it could save you from injury or even death.
- **Get to know the emergency procedures**
Find out where the fire alarms, extinguishers and exits are located. Make sure that they're accessible and not blocked. Ask your employer if there are any other emergency procedures that apply to your workplace.
- **Report all injuries**
If you are injured, get immediate First Aid and then report the injury to your supervisor. Make sure your employer files a *Form 0007* report with the Workplace Safety & Insurance Board.

Contacts For Health And Safety

Workplace Safety and Insurance Board (WSIB)

Youth@wsib.on.ca www.yworker.com

WSIB prevention (800) 265-4752

Industrial Accident Prevention Association (800) 406-4272 www.iapa.ca

Workers Health and Safety Centre (888) 869-7950

ONTARIO COLLEGES OF APPLIED ARTS AND TECHNOLOGY

Contact these Colleges or check out their websites for more details.

Algonquin College of Applied Arts and Technology

1385 Woodroffe Avenue,
Ottawa, Ontario K2G 1V8
Tel: (613) 727-4723 or (800) 565-4723
Admissions: (613) 727-0002
Fax: (613) 727-7754
www.algonquincollege.com

Collège Boréal

21, boulevard LaSalle,
Sudbury, Ontario P3A 6B1
Tel: (705) 560-6673 or (800) 361-6673
Admissions: (705) 560-6673 ext. 3035
Fax: (705) 521-6007
www.borealcollege.on.ca

Cambrian College of Applied Arts and Technology

1400 Barrydowne Road
Sudbury, Ontario P3A 3V8
Tel: (705) 566-8101 or (800) 461-7145
Admissions: (705) 566-8101 ext. 7300
Fax: (705) 524-7334
www.cambriancollege.ca

Canadore College of Applied Arts and Technology

100 College Drive PO Box 5001
North Bay, Ontario P1B 8K9
Tel: (705) 474-7600
Admissions: (705) 474-7600 ext. 5123
Fax: (705) 494-7462
www.canadorecollege.on.ca

Centennial College of Applied Arts and Technology

PO Box 631, Station A
Scarborough, Ontario M1K 5E9
Tel: (416) 289-5000 or (800) 268-4419
Admissions: (416) 289-5300
Fax: (416) 694-2664
www.centennialcollege.ca

La Cité collégiale

801, promenade de l'Aviation
Ottawa, Ontario K1K 4R3
Tel: (613) 742-2483 or (800) 267-2483
Fax: (613) 742-2481
www.lacitec.on.ca

Conestoga College of Applied Arts and Technology

299 Doon Valley Drive
Kitchener, Ontario N2G 4M4
Tel: (519) 748-5220
Admissions: (519) 748-5220 ext. 656
Fax: (519) 895-1097
www.conestogac.on.ca

Confederation College of Applied Arts and Technology

1450 Nakina Drive, PO Box 398, Station F
Thunder Bay, Ontario P7C 4W1
Tel: (807) 475-6110
Admissions: (807) 475-6679
Fax: (807) 623-4512
www.confederationcollege.on.ca

Durham College of Applied Arts and Technology

PO Box 385, 2000 Simcoe Street North
Oshawa, Ontario L1H 7K4
Tel: (905) 721-2000
Admissions: (905) 721-3088
Fax: (905) 721-3113
www.durhamcollege.ca

Fanshawe College of Applied Arts and Technology

1001 Fanshawe College Blvd., PO Box 7005
London, Ontario N5Y 5R6
Tel: (519) 452-4100
Fax: (519) 452-4420
www.fanshawec.ca

Fleming College of Applied Arts and Technology

599 Brealey Drive
Peterborough, Ontario K9J 7B1
Tel: (705) 749-5530
Fax: (705) 749-5540
www.flemingcollege.on.ca

George Brown College of Applied Arts and Technology

PO Box 1015, Station B
Toronto, Ontario M5T 2T9
Tel: (416) 415-2000 or (800) 265-2002
Fax: (416) 415-4993
www.georgebrowncollege.ca

Georgian College of Applied Arts and Technology

1450 Eighth Street East
Owen Sound, ON N4K 5R4
Tel: (519) 376-0840
Fax: (519) 376-5395
www.georgianc.on.ca

Humber College of Applied Arts and Technology

205 Humber College Boulevard
Etobicoke, Ontario M9W 5L7
Tel: (416) 675-6622 or (800) 268-4867
Admissions: (416) 675-6622 Fax: (416) 675-2427
www.humber.ca

Lambton College of Applied Arts and Technology

1457 London Road
Sarnia, Ontario N7S 6K4
Tel: (519) 542-7751
Admissions: (519) 542-7751 ext. 490
Fax: (519) 542-7982
www.lambton.on.ca

Loyalist College of Applied Arts and Technology

PO Box 4200 Wallbridge/Loyalist Road
Belleville, Ontario K8N 5B9
Tel: (613) 969-1913 or (888) 569-2547
Admissions: (613) 969-1913 ext. 2204
Fax: (613) 962-0937
www.loyalistcollege.com

Mohawk College of Applied Arts and Technology

PO Box 2034, Fennell Avenue & West 5th
Hamilton, Ontario L8N 3T2
Tel: (905) 575-1212
Admissions: (905) 575-2000 Fax: (905) 575-2392
www.mohawkcollege.ca

Niagara College of Applied Arts and Technology

300 Woodlawn Road
Welland, Ontario L3C 7L3
Tel: (905) 735-2211
Admissions: (905) 735-2211 ext. 7618
Fax: (905) 736-6000
www.niagaracollege.ca

Northern College of Applied Arts and Technology

PO Box 3211
Timmins, Ont. P4N 8R6
Tel: (705) 235-3211
Admissions: (705) 235-3211 ext. 134
Fax: (705) 235-7279
www.northernnc.on.ca

St Clair College of Applied Arts and Technology

2000 Talbot Road West
Windsor, Ont. N9A 6S4
Tel: (519) 966-1656
Admissions: (519) 972-2759
Fax: (519) 972-3811
www.stclaircollege.ca

St. Lawrence College of Applied Arts and Technology

P. O. Box 6000 King and Portsmouth
Kingston, Ont. K7L 5A6
Tel: (613) 544-5400
Fax: (613) 545-3923
www.stlawrencecollege.ca

Sault College of Applied Arts and Technology

Box 60, 443 Northern Ave.
Sault Ste. Marie, Ontario P6A 5L3
Tel: (705) 759-6774
Admissions: (800) 461-2260
Fax: (705) 759-3273
www.saultc.on.ca

Seneca College of Applied Arts and Technology

1750 Finch Avenue East North York, Ontario M2J 2X5
Tel: (416) 491-5050
Admissions: (416) 491-5050 ext. 2800
Fax: (416) 491-918
www.senecac.on.ca

Sheridan College of Applied Arts and Technology

1430 Trafalgar Road
Oakville, Ontario L6H 2L1
Tel: (905) 845-9430
Admissions: (905) 849-2800
Fax: (905) 815-4048
www.sheridanc.on.ca

Colleges with Programs in Agricultural Technologies**Kemptville College**

P.O. Box 2003
Kemptville, Ontario K0G 1J0
Tel: (613) 258- 8336
www.kemptvillec.uoguelph.ca

Ridgetown College

120 Main St. East
Ridgetown, Ontario N0P 2C0
Tel: (519) 674-1500
www.ridgetownc.uoguelph.ca

MORE WAYS TO GET INFORMATION AND HELP!

LOCAL CONTACTS

Ministry of Labour

London District Office

217 York St., 5th Floor
London, On N6A 5P9
Tel: (519) 439-2210 or (800) 265-1676

Kitchener Office

155 Frobisher Dr. Unit #G213,
Waterloo, On N2V 2E1
Tel: (519) 885-3378 or (800) 265-2468

Grey-Bruce Home Builder's and Trades' Association

www.greybrucehomebuilders.ca

Saugeen Country Home Builders' Trade Association

Wally Halliday R.R. # 2, Box 75
Walkerton, ON N0G 2V0
Tel: (519) 881-6148
www.saugeenhomebuilder.ca

Stratford and Area Home Builders' Association

P.O. Box 23024
Stratford, On N5A 7V8
Tel: (519) 271-4795
www.saba.on.ca

ONTARIO ASSOCIATIONS

Infrastructure Health and Safety

5110 Creekbank Rd., #400, Mississauga, ON L4W 0A1
Tel: (905) 625-0100; (800) 263-5024

Council of Ontario Construction Associations

180 Dundas Street W., Suite 2001,
Toronto, Ontario M4W 3C7
Tel: (416) 968-7200 BBS: (416) 968-1687
PETCO-BBS: (416) 968-1168
www.coca.on.ca

Ontario Road Builders Association

365 Brunel Road, Unit 1 Mississauga, Ontario L4Z 1Z5
Tel: (905) 507-1107
www.orba.org

Ontario Construction Secretariat

940 The East Mall, Suite 202
Etobicoke, Ontario M9B 6J7
Tel: (416) 620-5210 or (888) 878-8868
www.iciconstruction.com

Ontario General Contractors Association

6299 Airport Rd., Ste. 703
Mississauga, Ontario L4V 1N3
Tel: (905) 671-3969
www.ogca.ca

The Ontario Federation of Labour

15 Gervais Dr., North York, Ontario M3C 1Y8
Tel: (416) 441-2731 or (800) 668-9138
www.ofl.ca

NATIONAL ASSOCIATIONS

Canadian Construction Association

75 Albert Street, Suite 400 Ottawa, Ontario K1P 5E7
Tel: (613) 236-9455
Website: www.ccaacc.com

Canadian Construction Women

www.constructionwomen.org

Mechanical Contractors Association of Canada

#601-280 Albert Street Ottawa, Ontario K1P 5G8
Tel: (613) 232-0492 email: mcac@mcac.ca
www.mcac.ca

INTERESTING WEBSITES

East Central Ontario Training Board	www.theskilledtrades.com
Service Canada	www.servicecanada.gc.ca
Opportunity Knocks	www.opportunityknocks.org
First Nations Employment & Training Centre	www.fnet.ca
Career Options for Women	www.choixdecARRIERES.org
Onwin	www.onwin.ca
Made With The Trades	www.madewiththetrades.com
Canadian Career Consortium	www.careerccc.org
All Trades Resume Writing	www.all-trades-resume-writing.com
Ontario Youth Apprenticeship Program	www.edu.gov.on.ca/eng/tcu/apprentices/oyap.html
Canadian Career Week	www.canadacareerweek.com
Apprenticeship trades	www.apprenticetrades.ca
Careers in Construction	www.careersinconstruction.ca
Construction Sector Council	www.csc-ca.org
MTCU	www.edu.gov.on.ca/eng/tcu/employmentontario/training

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