



EST. 1908

**WINDSOR**  
CONSTRUCTION ASSOCIATION

# Construction Career Guide



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## CONSTRUCTION CAREER GUIDE

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# Letter From The Executive Director



Dear Future Tradespersons and Professionals,

The construction industry is the second largest industry in North America. Because of its magnitude, it offers a great deal of career opportunities and with an aging workforce we realize many new hires will occur in the near future.

For this reason, we have undertaken a project to develop materials that will better inform secondary students, post-secondary students and parents about the opportunities and the potential that the construction industry has to offer. WCA has been updating our information on careers in construction and have compiled our findings into this manual. This Construction Career Guide contains useful information that will help you along your path to success in the construction industry. Its contents include apprenticeship information, career profiles, training centers and colleges and various career pathways.

We hope you find this information both helpful, and informative, and will lead you to enter the construction sector where your career success potential is truly unlimited.

Sincerely,

Jim Lyons  
WCA Executive Director

# General Apprenticeship Information

## WHAT IS APPRENTICESHIP?

Apprenticeship is one of four post-secondary educational career pathways. An Apprentice part takes in a combination of on-the-job training and in-class training. Approximately 90% of training takes place on the job. The employer's job is to ensure that the Apprentice becomes competent in a particular trade based on standards set out by the Ministry of Training, Colleges and Universities. In-class training will take place at either a College of Applied Arts and Technology, Training Delivery Agent (TDA) or another approved delivery agent such as a union. After completion of both in-class and on-the-job training, the Apprentice must pass an examination before they can receive a Certificate of Qualification.

## WHY APPRENTICESHIP?

Essentially, apprentices are being paid to learn. Hands on work experience earns you a pay check while earning credits towards your OSSD.

For the many students who are hands on learners, apprenticeship offers you a great deal of quality hands on learning experiences. A combination of hands on experience and in class training has proven to make a versatile individual as well as a more employable individual.

Being an Apprentice also comes with cash incentives:

Apprenticeship Incentive Grant (AIG) is available to apprentices in Red Seal trades. Qualifying apprentices receive \$1000 after completing Level 1 schooling and an additional \$1000 after completing Level 2 schooling.

Apprenticeship Completion Grant (ACG) is a \$2000 grant available to qualifying apprentices who successfully complete apprenticeship training and obtain their journeyman certificate in a Red Seal trade.

Completing an apprenticeship in a Red Seal trade can earn you a total of \$4000 in grants!

## ONTARIO YOUTH APPRENTICESHIP PROGRAM

OYAP is a program in which apprenticeship students can earn credits towards their education while receiving on-the-job training in an apprenticeship program. OYAP students have the ability to explore career options in the skilled trades. To enroll in OYAP students should meet with their Co-op teacher to discuss the requirements and which program they are best suited for.

## OYAP APPRENTICE RESPONSIBILITIES

Apprenticeship students and employers must sign a Registered Training Agreement (RTA) which outlines the responsibilities of the Apprentice and of the employer. The RTA is not an employment contract. Once the contract has been signed the Apprentice must become a member of the Ontario College of Trades (OCOT) within 90 days. As long as you are a secondary school student with an RTA, your membership fees are waived. You must carry your membership card with you on the job at all times and present it when asked by an inspector.

Once you graduate secondary school you will be required to pay a membership fee of \$60 per year as long as you have an RTA.

# General Apprenticeship Information

## OYAP REQUIREMENTS:

Must be 16 years of age.

Must have completed 16 credits towards an Ontario Secondary School Diploma (OSSD) before starting the apprenticeship program.

Must be enrolled as a full time student during the program.

Must be working towards the completion of ass OSSD requirements.

## USEFUL LINKS:

[www.oyap.com](http://www.oyap.com)

[www.careersintrades.ca](http://www.careersintrades.ca)

[www.apprenticesearch.com](http://www.apprenticesearch.com)

[www.collegeoftrades.ca](http://www.collegeoftrades.ca)

[www.red-seal.ca](http://www.red-seal.ca)

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

[www.caf-fca.org](http://www.caf-fca.org)

[www.youth.gc.ca](http://www.youth.gc.ca)

[www.workingincanada.gc.ca](http://www.workingincanada.gc.ca)

<http://199.71.141.249/StudentSuccess/programs/>

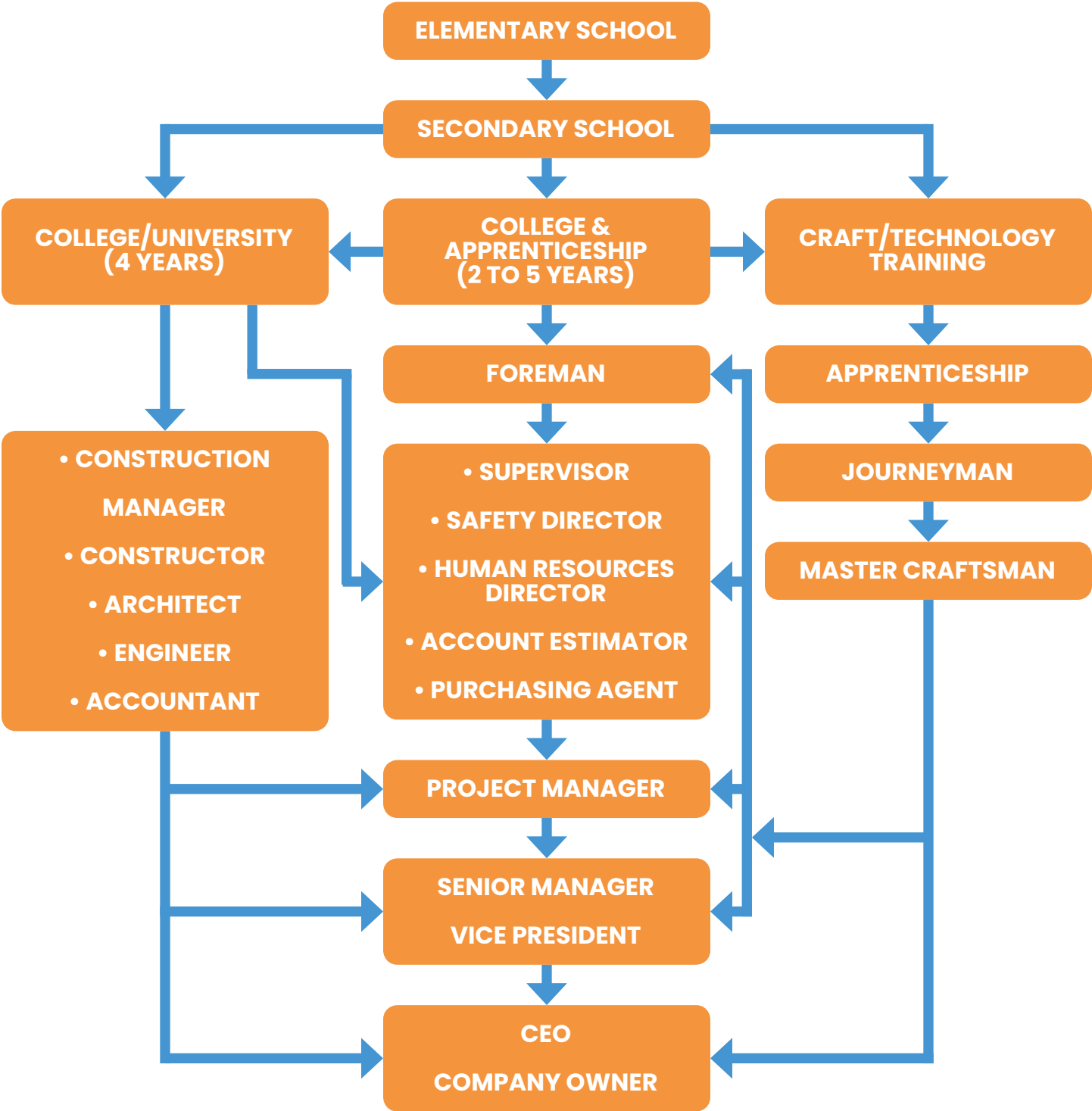
<http://www.wecdsb.on.ca/school-programs-shsm.html>

## SPECIALIST HIGH SKILLS MAJOR PROGRAM (SHSM):

As in all aspects of your career, balance is key. A student with a balance of hands on education as well as academic education can be very successful. The Specialist High Skills Major Program is an excellent way of obtaining that balance. SHSM students get a combination of hands-on classroom experience through tech classes, as well as some academic classes such as math or science. The completion of a SHSM Program also earns the student a red seal on their Ontario Secondary School Diploma, making the student more credible to potential employers. Students also receive recognition on their transcripts for completing a Specialist High Skills Major Program.



# Construction Workforce Career Path



# Construction Workforce Training

## YOU HAVE A DUTY TO TRAIN NEW WORKERS BEFORE THEY START WORK!



### New workers need training and orientation.

#### The law requires training in:

- WHMIS (Workplace Hazardous Materials Information System)
- fall protection
- specific tasks such as traffic control, confined space entry, and window cleaning
- emergency procedures, including fall rescue
- specific equipment such as powder-actuated tools, chainsaws, lift trucks, hoisting equipment, fire extinguishers, scissor lifts, and other powered elevating work platforms.

#### New workers must be told and, if necessary, trained and shown what's expected of them in terms of:

- work performance
- safe operation of tools and equipment
- procedures around hazardous materials
- proper use of any required personal protective equipment and clothing.

#### Training is also necessary:

- when a worker is assigned to a new job
- whenever equipment, materials, or procedures are new to the worker
- when inadequate performance is observed.

#### When a new worker starts a job, you should:

- Give the new worker a copy of the company health and safety policy.
- Explain the project and review the worker's duties.
- Alert the worker to any hazards on site and the protective measures required.
- Explain requirements for personal protective equipment.
- Outline procedures for emergencies and accident reporting.
- Show the worker where to find the first aid kit, fire extinguishers, and other emergency equipment.
- Introduce the new worker to the supervisor.
- Show the new worker around the site.

A new worker can absorb only so much information in the first few days. A copy of the company's health and safety policy and program can help by reinforcing the points covered during orientation.

Wherever possible, use the buddy system to follow up on orientation. Pairing a new worker with a veteran can help each to work more safely. You will reinforce the new worker's training and raise the veteran's safety awareness at the same time.

The Infrastructure Health and Safety Association can help. Visit [www.ihsa.ca](http://www.ihsa.ca) for information and resources for new and young workers, including training courses, online learning programs, and orientation templates.





## BRICK AND STONE MASON NOC#7281

*Interprovincial Red Seal Certificate Available.*

**Wage Rate:** \$20.50-\$58.85 per hour

**Job Description:** This trade is an art. The level of creativity is infinite. Stone masons are the people who add style and creativity to a building. A bricklayer will lay brick, stone, concrete block, and other similar materials to construct and decorate walls. Other tasks will include erecting and repairing walls, arches, paving floors, fireplaces, chimneys, smokestacks, and line kilns. You will be working with hand tools to shape and fit stones.

**Work Environment:** You will be working in a variety of environments including outdoors and indoors. You must be comfortable with heights as you will be working on scaffolding. Good physical fitness is also an asset. Hand eye coordination, creativity, math skills and a good work ethic is necessary to be a successful Bricklayer.

**Requirements:** To become a certified Brick and Stone Mason you must complete a 5600 hour Apprenticeship Program plus 3 x 8 weeks of in class training. To be eligible for the program you must be 16 years of age and have a minimum grade 10 education to register.

### Training Facilities/ Colleges:

#### TDA's (Training Delivery Agents)

- Ontario Masonry Training Institute – Ottawa
- Ontario Masonry Training Institute – Mississauga
- LIUNA 183 – Cobourg
- LIUNA 183 – Vaughan
- LIUNA local 1059 – London
- IUBAC Local 6 – Windsor (Non-TDA)

#### Colleges

- Conestoga College
- Fanshawe College
- St. Clair College

## CEMENT (CONCRETE) FINISHER NOC#7282

**Wage Rate:** \$18-\$58.85 per hour

**Job Description:** Cement Finishers finish and repair concrete flooring, sidewalks, patios and roads. They may also finish concrete in pre-cast and architectural concrete as well as installing various fixtures such as anchor bolts, steel plates, and door sills. After your apprenticeship is complete you may be able to become a foreperson, supervisor or inspector.

**Work Environment:** You will be working in a variety of environments including outdoors and indoors performing tasks that require physical fitness. Some traveling to different job locations where work is offered may be required. Most Cement Finishers work a 35-40 hour week with the possibility of shiftwork.

**Requirements:** To become a certified Concrete Finisher you must complete a 4500 hour Apprenticeship Program plus 2 x 8 weeks of in class training. For eligibility you must be 16 years of age and have completed a grade 10 education.

### Training Facilities/ Colleges:

#### TDA's (Training Delivery Agents)

- LIUNA Local 837 – Hamilton
- IUBAC Local 6 – Windsor (Non-TDA)

*“You will be working in a variety of environments including outdoors and indoors performing tasks that require physical fitness.”*

# Construction Career Guide

## CONCRETE MASON NOC#7282

**Wage Rate:** \$20.50-\$58.85 per hour

**Job Description:** Concrete Masons work with wet concrete using power trowels, hand trowels and vibrators to pack the concrete into place. You will be applying different chemicals to wet surfaces to ensure proper drying time in different weather conditions.

**Work Environment:** You will be working in a variety of environments including outdoors and indoors performing tasks that require physical fitness. Some traveling to different job locations where work is offered may be required. Most Cement Finishers work a 35-40 hour week with the possibility of shiftwork.

**Requirements:** To be a certified Concrete Mason you must complete a 6000 hour Apprenticeship Program plus 1 x 8 weeks of in class training. For eligibility you must be 16 years of age and have completed a grade 10 education.

### Training Facilities/ Colleges:

#### TDA's (Training Delivery Agents)

- OPCMIA Local 598 – Etobicoke • LIUNA 183 – Vaughan
- LIUNA Local 1059 – London • Cement Masons Water Proofer and Steeplejacks' Local 598 Training Center
- IUBAC Local 6 – Windsor (Non-TDA)

## CONSTRUCTION BOILERMAKER NOC#7234

*Interprovincial Red Seal Certificate Available.*

**Wage Rate:** \$35.89-\$64.48 per hour

### Job Description:

Construction Boilermakers build and maintain very large boilers and pressure tanks in power stations, refineries, and chemical plants. When licenced, there are numerous other specializations that you can pursue. Some include an industrial boilermaker, construction boilermaker, boiler, fitter, installer, or marine boilermaker.

**Work Environment:** This field of work requires some traveling to different job sites. Work may be heavy, indoors, outdoors and requires good physical fitness. You may be working in boiler assembly shops or shipyards at great heights, small spaces or outdoors.

**Requirements:** To become a certified Construction Boilermaker you must complete a 6600 hour Apprenticeship program plus 3 x 8 weeks of in class training. A combination of 4 years of work in the trade and some high school or college courses in boiler making will also enable you to become certified. You must be at least 16 years of age and have completed at least a grade 10 education. Drafting, mathematics, geometry and blueprint reading will be beneficial and provide a solid foundation for an apprenticeship in this trade. Once the training is complete the apprentice must successfully pass a certification examination.

### Training Facilities/ Colleges:

#### Colleges

- Humber College



*“Concrete Masons work with wet concrete using power trowels, hand trowels and vibrators to pack the concrete into place.”*



## **DRYWALL, ACOUSTICS AND LATHING APPLICATOR NOC#7284**

**Wage Rate:** \$28.46–\$55.75 per hour

**Job Description:** In this profession you will be reading blueprints, laying out and framing interior and exterior walls, installing and finishing drywall sheets and various types of insulation, wall and ceiling systems, both indoors and outdoors, in the residential and commercial sectors. Attention to detail is important as you will be giving interiors and exteriors their finishes.

**Work Environment:** Most people in this occupation are either self-employed or work for a specialty interior/exterior systems contractor. This work can sometimes be cyclical and seasonal. Your work will take place indoors and outdoors in all types of weather. Physical fitness is important since you will be lifting heavy sheets of drywall on a regular basis.

### **Requirements:**

To become a certified Drywall, Acoustics and Lathing Applicator you must complete a 5400 hour Apprenticeship Program plus 2 x 10 weeks of in class training. To be eligible for this program you must be at least 16 years of age and have a minimum grade 10 education.

### **Training Facilities/ Colleges:**

#### **TDA's (Training Delivery Agents)**

- Carpenters Local 27 – Vaughan
- Carpenters Local 18 – Hamilton
- Ottawa Walls & Ceilings Training Center East – Ottawa
- Ottawa Walls & Ceilings Training Center North – Sudbury
- Interior Finishing Systems Training Center – Ottawa
- Interior Finishing Systems Training Center – Woodbridge
- Carpenters Local 494 – Tecumseh (Non-TDA)

## **DRYWALL FINISHER AND PLASTERER NOC#7284**

**Wage Rate:** \$27.38–\$43.99 per hour

**Job Description:** A Drywall Finisher and Plasterer installs different types of wall coverings and applies the finish materials. You will install drywall, corner beads and mouldings, applying compound and plaster, and sanding walls and ceilings until smooth.

**Work Environment:** Most people in this occupation are either self-employed or work for an interior finishing contractor. This work can sometimes be cyclical and seasonal. Your work will take place indoors and outdoors in all types of weather. Physical fitness is important since you will be lifting heavy sheets of drywall on a regular basis.

**Requirements:** To become certified Drywall Finisher you must complete a 5400 hour Apprenticeship Program plus 480 hours of in class training. To be eligible for this program you must be at least 16 years of age and have a minimum grade 10 education.

### **Training Facilities/ Colleges:**

#### **TDA's (Training Delivery Agents)**

- Carpenters Local 27 – Hamilton (Non-TDA)
- Interior Finishing Systems Training Center – Woodbridge
- Interior Finishing Systems Training Center – Ottawa
- Carpenters Local 494 – Tecumseh (Non-TDA)

*“Most people in this occupation are either self-employed or work for an interior finishing contractor.”*

# Construction Career Guide



## ELECTRICIAN CONSTRUCTION AND MAINTENANCE (COMPULSORY)

**NOC# 7241**

**Wage Rate:** \$32.59-\$68.69 per hour

**Job Description:** As an Electrician you will be creating the layout, assembly, maintenance, and connection of a wide range of electrical equipment, from lighting to security systems, electrical devices to electrical conductors. You will perform numerous tasks in the construction, repair or renovation of commercial and industrial properties. This trade is strictly regulated as this work presents many hazards, such as the installation of power generation and high voltage systems.

**Work Environment:** This trade is filled with a variety of different types of work. You may work indoors or outdoors on any type of residential commercial or industrial building. 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 become a journeyman.

**Requirements:** To become a certified Construction and Maintenance Electrician you are required to complete a 9000 hour Apprenticeship Program plus 1 x 8 week 2 x 10 weeks of in class training. Examination is mandatory in Ontario. To qualify for an apprenticeship you must be at least 18 years of age with a grade 12 education. Interprovincial Red Seal Certification is available.

## Training Facilities/ Colleges:

### Colleges

- Centennial College
- College Boreal
- Conestoga College
- Confederation College
- Durham College
- Fanshawe College
- Fleming College
- Georgian College
- Humber College
- Lambton College
- Mohawk College
- St. Clair College
- St. Lawrence College
- Sheridan College

*“This trade is strictly regulated as this work presents many hazards, such as the installation of power generation and high voltage systems.”*



# Construction Career Guide

## ELECTRICIAN DOMESTIC AND RURAL (COMPULSORY) NOC# 7241

**Wage Rate:** \$20.57 - \$35.93 per hour

**Job Description:** As an Electrician you will be creating the layout, assembly, maintenance, and connection of a wide range of electrical equipment, from lighting to security systems, electrical devices to electrical conductors. You will perform numerous tasks in the construction, repair or renovation of residential and farm buildings. This work is strictly regulated as it can be hazardous.

**Work Environment:** This trade is filled with a variety of different types of work. You may work indoors or outdoors on any type of residential commercial or industrial building. . 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 become a journeyman.

**Requirements:** To become a certified Domestic and Rural Electrician you are required to complete a 7200 hour Apprenticeship Program plus 2 x 10 weeks of in class training. Examination is mandatory in Ontario. You must be at least 18 years old and have finished a grade 12 education.

### Training Facilities/Colleges:

#### Colleges

- Centennial College
- College Boreal
- Conestoga College
- Confederation College
- Durham College
- Fanshawe College
- Fleming College
- Georgian College
- Humber College
- Lambton College
- Mohawk College
- St. Clair College
- St. Lawrence College
- Sheridan College

## FLOOR COVERING INSTALLER NOC#7295

*Interprovincial Red  
Seal Certificate  
Available.*

**Wage Rate:** \$20.16-\$55.75 per hour

**Job Description:** Flooring Installers lay carpet, linoleum, vinyl, hardwood, and other floor coverings in residential, commercial and in industrial buildings. Tasks include removal, floor leveling, preparation, measuring, cutting and installing various types of flooring.

**Work Environment:** Working in this field allows you to work indoors for 35-40 hours per week. It can sometimes be seasonal and involves heavy lifting and sometimes working with chemicals. In this trade you also have the opportunity to be creative when laying out patterns and colours. Problem solving skills are very useful.

**Requirements:** To become a certified Covering Installer you are required to complete a 6000 hour Apprenticeship Program plus 2 x 10 weeks of in class training. Prior education and experience can shorten this time period. You must be 16 years of age and have a minimum grade 10 education.

### Training Facilities/ Colleges:

#### TDA's (Training Delivery Agents)

- Carpenters Local 27 – Vaughan
- Carpenters Local 494 – Tecumseh (Non-TDA)



*"In this trade you also have the opportunity to be creative when laying out patterns and colours."*



## GENERAL CARPENTER NOC#7271

*Interprovincial Red Seal Certificate Available.*

**Wage Rate:** \$17-\$55.75 per hour

**Job Description:** As a carpenter you must enjoy working with your hands. You will be in constant contact with power and hand tools. You would be performing numerous tasks that include millwork, erecting foundations, framing and finishing, installing windows and doors, building stairs, countertops and cupboards, laying flooring, assembling scaffolding, suspended ceilings, assembling concrete forms, and even welding. You may also be performing estimates, calculations, and layouts. General Carpenters may be working in the “rough” or the “finishing” aspects of new buildings or renovations.

**Work Environment:** You will find yourself at a variety of job sites. Jobs may be indoors or outdoors and consist of new projects or renovations on existing structures. Carpenters typically work 40-50 hours per day during the busy season and work shorter days during the off season in winter. You may work for framers, contractors or finish carpenters.

**Requirements:** To become a certified general carpenter you must complete a 7200 hour Apprenticeship Program plus 3 x 8 weeks of in class training. Studying math and enrolling in shop classes will give you a good head start in this career. Classes in industrial arts and mechanical drawing will help you decide whether this trade may be a good fit for you. A grade 10 education is required and you must be at least 16 years of age to be eligible.

### Training Facilities/ Colleges:

#### TDA's (Training Delivery Agents)

- Carpenters Local 27 – Vaughan
- Carpenters Local 494 – Tecumseh (Non-TDA)

### Colleges

- Cambrian College
- Canadore College
- Conestoga College
- Durham College
- Fanshawe College
- Fleming College
- George Brown College
- Georgian College
- Lambton College
- Mohawk College
- Niagara College
- St. Clair College
- St. Lawrence College

## HEAT AND FROST INSULATOR NOC#7293

**Wage Rate:** \$21.28-\$59.21 per hour

**Job Description:** Heat and Frost Insulators insulate various types of machinery with different types of materials. You will insulate plumbing, heating equipment, cooking equipment and refrigeration systems as well as different parts of buildings like ceilings and walls of buildings.

**Work Environment:** You will find yourself at a variety of job sites. Jobs may be indoors or outdoors. Heat and Frost Insulators typically work a 40 hour week. You may be employed by construction companies, insulation contractors, or may start your own business.

**Requirements:** To be a certified Heat and Frost Insulator you must complete a 6400 hour Apprenticeship Program. To be eligible for this program you must be at least 16 years of age and have a minimum grade 10 education.

### Training Facilities/ Colleges:

#### TDA's (Training Delivery Agents)

- International Association of Heat and Frost Workers Local 95 – Markham

# Construction Career Guide

## ARCHITECTURAL GLASS AND METAL TECHNICIAN (GLAZIER)

**NOC#7292**

*Interprovincial Red Seal Certificate Available.*

**Wage Rate:** \$17-\$46.83 per hour

**Job Description:** In this trade you will be preparing, installing and replacing glass. Applications include residential, commercial and industrial, as well as automotive glass as well. This occupation also involves the fabrication, assembly and installation of commercial windows and storefronts. Ability to read blueprints are an asset when ordering materials as well as fabrication.

**Work Environment:** Glaziers work in a variety of environments such as residential, commercial, industrial, retail service, and glass repair shops. You will handle multiple materials including glass, leaded glass, beveled glass, protective glass, plate glass, mirrors, and all other plastics and other substances that can be used in place of glass. You will often encounter outdoor work at great heights.

**Requirements:** To become a certified Glazier you must complete an 8000 hour Apprenticeship Program plus 3 x 8 weeks on in class training. To qualify for the program you must be at least 16 years of age and have a grade 10 education.

### Training Facilities/ Colleges:

#### TDA's (Training Delivery Agents)

- Ontario and Industrial Finishing Skills Center – Toronto

## IRONWORKER GENERALIST BRANCH 1

**NOC#7236**

*Interprovincial Red Seal Certificate Available.*

**Wage Rate:** \$28.71-\$61.73 per hour

**Job Description:** Ironworkers Assemble and erect prefabricated metal structures by welding and or bolting structural steel members together. You will also erect and install scaffolding and equipment and rigging to precise standards and blueprint instructions.

**Work Environment:** Ironworkers can expect to be lifting heavy materials, so ironworkers must be physically fit with good upper body strength and agility. You must be comfortable working at great heights and have the ability to climb. You will work outdoors in all kinds of weather. Overtime is sometimes required to complete a job on schedule.

**Requirements:** To become a certified Ironworker you must complete an 8000 hour Apprenticeship Program plus 3 x 8 weeks of in class training. You must be at least 16 years of age and have a minimum grade 10 education.

### Training Facilities/ Colleges:

#### TDA's (Training Delivery Agents)

- Ironworkers Local 721 – Etobicoke



*“Ironworkers can expect to be lifting heavy materials, so ironworkers must be physically fit with good upper body strength and agility.”*

# Construction Career Guide



## IRONWORKER STRUCTURAL AND ORNAMENTAL BRANCH 2 NOC#7236

*Interprovincial Red Seal Certificate Available.*

**Wage Rate:** \$28.71-\$61.73 per hour

**Job Description:** Ironworkers install and reinforce structural and ornamental steel components in commercial, industrial, large residential buildings, towers, bridges and stadiums. They erect pre-engineered buildings and ornamental ironwork such as curtain walls, metal stairways, railings and doors. They also erect scaffolding, cranes and hoists on large construction sites.

**Work Environment:** Ironworkers can expect to be lifting heavy materials, so ironworkers must be physically fit with good upper body strength and agility. You must be comfortable working at great heights and have the ability to climb. You will work outdoors in all kinds of weather. Overtime is sometimes required to complete a job on schedule.

**Requirements:** To become a certified Ironworker you must complete a 6000 hour Apprenticeship Program plus 3 x 8 weeks of in class training. You must be at least 16 years of age and have a minimum grade 10 education.

### Training Facilities/ Colleges:

#### TDA's (Training Delivery Agents)

- Ironworkers Local 700 – Maidstone
- Ironworkers Local 736 – Hamilton

## CONSTRUCTION MILLWRIGHT NOC#7311

**Wage Rate:** \$26.41-\$44.02 per hour

**Job Description:** A Construction Millwright's job is always changing. No two jobs are alike. A Construction Millwright can be involved in the installation, repair, and maintenance of complex machinery in a range of industries. You will work in a wide range of industries that involve manufacturing automotive parts and assembly, textiles, food processing and mining and forest products, power generation and renewal energy are some of the jobs you will encounter. Construction Millwrights are mostly engaged in the initial installation and the start up of industrial plant machinery and equipment.

**Work Environment:** This job is for someone with an understanding of machines and their workings. You will need the ability to solve problems and prioritize as well as work as part of a team or individually. Physical strength is an asset. Ability to travel is an asset. You may encounter emergency calls.

**Requirements:** To become a certified Construction Millwright you must complete an 8000 hour Apprenticeship Program plus 3 x 8 weeks of in class theory and shop training. To be eligible for the program you must be at least 18 years of age and have a minimum grade 10 education for a Construction Millwright.

### Training Facilities/ Colleges:

- Millwrights Local 1244 – Windsor (Non-TDA)

*"A Construction Millwright can be involved in the installation, repair, and maintenance of complex machinery in a range of industries."*



# Construction Career Guide

## HOISTING ENGINEER – MOBILE CRANE OPERATOR (COMPULSORY)

### NOC#7371

*Interprovincial Red Seal Certificate Available.*

**Wage Rate:** \$30.50-\$61.26 per hour

**Job Description:** Mobile Crane Operators maintain and operate mobile cranes that are capable of lifting and moving materials weighing over 16,000 pounds. They move machinery or materials from place to place on a construction site, port, industrial site or railway yard.

**Work Environment:** You will need excellent hand eye coordination and you must keep safety a priority when operating large, powerful construction equipment. You will work a standard 40 hour week with the occasional evening or weekend.

#### Requirements:

Branch 1: Completion of a 3 year 6000 hour Apprenticeship Program plus 480 hours of in class training.

Branch 2: (8-15 tons) Completion of a 1000 hour Apprenticeship Program plus 240 hours on in class training.

To be eligible for your program you must be at least 16 years of age, and have a minimum grade 10 education.

#### Training Facilities/ Colleges:

##### TDA's (Training Delivery Agents)

- Operating Engineers Training Institute of Ontario – Oakville

##### Colleges

- Durham College

## HOISTING ENGINEER – TOWER CRANE OPERATOR (COMPULSORY)

### NOC#7371

**Wage Rate:** \$30.50-\$63.40 per hour

**Job Description:** In an occupation like this you will be working everything from high rise buildings to sports stadiums. Tower Crane Operators maintain and operate tower cranes that lift extremely heavy loads. Coordination between the operator and other workers is crucial to ensure smooth operation.

**Work Environment:** As a tower crane operator you must be comfortable working at great heights. Typically on a construction site, Crane Operators use big rigs to lift and move items that weigh up to 8 tonnes. 40 hour weeks are common but sometimes overtime is necessary to complete a project on time.

**Requirements:** To become a certified Tower Crane Operator you must complete a 4500 hour Apprenticeship Program plus 360 hours of in class training. To be eligible for this program you must be at least 16 years of age and have a minimum grade 10 education.

#### Training Facilities/ Colleges:

##### TDA's (Training Delivery Agents)

- Operating Engineers Training Institute of Ontario – Oakville

##### Colleges

- Durham College



*“Mobile Crane Operators maintain and operate mobile cranes that are capable of lifting and moving materials weighing over 16,000 pounds.”*



## PAINTER AND DECORATOR BRANCH 1 COMMERCIAL AND RESIDENTIAL

### NOC#7294

*Interprovincial Red Seal Certificate Available.*

**Wage Rate:** \$16-\$43.99 per hour

**Job Description:** Commercial and Residential Painters apply wall coverings, paint and other finishes to the interior and NOC#7284 surfaces of buildings including wall paper and stucco. Painters may also assemble scaffolding to work on ceilings or other high places. You will also be doing estimates, making recommendations and prepping walls to be finished.

**Work Environment:** Physical fitness with good upper body strength combined comfort with working at heights are necessary for this job. Typical jobsites include residential houses, offices and commercial buildings. You may work for a larger contractor but most residential painters are self employed.

**Requirements:** To become a certified Painter and Decorator you must complete a 6000 hour Apprenticeship Program plus 3 x 8 weeks of in class training. To be eligible for this program you must be at least 16 years of age and have a minimum grade 10 education.

### Training Facilities/ Colleges:

#### TDA's (Training Delivery Agents)

- Ontario Industrial and Finishing Skills Center – Toronto

## PAINTER AND DECORATOR BRANCH 2 INDUSTRIAL

### NOC#7294

*Interprovincial Red Seal Certificate Available.*

**Wage Rate:** \$15.50-\$48.59 per hour

**Job Description:** 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.

**Work Environment:** Physical fitness with good upper body strength combined comfort with working at heights are necessary for this job. Typical jobsites include factories, bridges and towers.

**Requirements:** To become a certified Painter and Decorator you must complete a 6000 hour Apprenticeship Program plus 3 x 8 weeks of in class training. To be eligible for this program you must be at least 16 years of age and have a minimum grade 10 education.

### Training Facilities/ Colleges:

#### TDA's (Training Delivery Agents)

- Ontario Industrial and Finishing Skills Center – Toronto

*“Industrial Painters prepare surfaces and paint factories, bridges, storage tanks and other types of industrial structures.”*

# Construction Career Guide

## PLUMBER (COMPULSORY)

### NOC#7251

*Interprovincial Red Seal Certificate Available.*

**Wage Rate:** \$17-\$64.67 per hour

**Job Description:** As a Plumber you have the opportunity to own your own business and set your own schedule. Plumbers assemble, install, maintain and repair piping systems such as water, waste, drains and vents. They also deal with fixtures and appliances for residential, commercial and industrial use. You can specialize as a maintenance plumber, plumber apprentice, plumbing mechanic or a plumbing contractor.

**Work Environment:** Plumbing is a multifaceted trade with applied skills in hospitals, commercial buildings, manufacturing plants, houses and apartment. Plumbers perform work both indoors and outdoors. Safety is a high priority as they deal with chemicals. Plumbers typically work for a plumbing contractor or the government.

**Requirements:** To become a certified Plumber you are required to complete a 9000 hour Apprenticeship Program plus 3 x 8 weeks in in class training. A combination of 5 years work experience along with high school and or college courses will also enable you to become certified. 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. You must be at least 16 years of age and must have a minimum grade 10 education to be eligible for this program. Trade certification is compulsory in Ontario.

### Training Facilities/ Colleges:

#### TDA's (Training Delivery Agents)

- UA Local 46 Joint Training Apprenticeship Committee – Scarborough
- UA Local 552 – Windsor
- UA Local 67 – Hamilton

#### Colleges

- Algonquin College
- Canadore College



- College Boreal
- Conestoga College
- Durham College
- Fanshawe College
- Fleming College
- George Brown College
- Georgian College
- Humber College
- Mohawk College
- Sheridan College
- St. Clair College
- St. Lawrence College

## POWERLINE TECHNICIAN

### NOC#7244

*Interprovincial Red Seal Certificate Available.*

**Wage Rate:** \$20-\$68.89 per hour

**Job Description:** This trade offers an interesting way to earn a living. You will be construction, maintaining, and repairing overhead and underground electrical power transmission and distribution systems.

**Work Environment:** As a Power Line Technician you would be working in a variety of locations year round in most weather conditions. Power Line Workers are often on-call and work for long periods of time during an emergency. Physical fitness and a comfort working with heights are assets.

**Requirements:** To become a certified Power Line Technician you must complete an 8000 hour Apprenticeship Program plus 4 x 2 weeks of in class training. To be eligible for this program you must be at least 16 years of age and have a minimum of grade 10 education.

### Training Facilities/ Colleges:

#### Colleges

- Algonquin College
- Cambrian College
- Conestoga College
- St. Clair College



## PRECAST CONCRETE ERECTOR

**NOC#7282**

*Interprovincial Red  
Seal Certificate  
Available.*

**Wage Rate:** \$29.96-\$48.60 per hour

**Job Description:** A Precast Concrete Erector works in collaboration with a crane operator to lower precast concrete members into place. They communicate using hand signals and with radios to align the panels in the proper position. These concrete members include precast walls, floors and beams.

**Work Environment:** You will be working outdoors in all types of weather. This job can be physically demanding. You will be working a standard 40 hour week with the possibility of overtime to complete projects on schedule.

**Requirements:** To become a certified Precast Concrete Erector you must complete a 5400 hour Apprenticeship Program including in class training. To be eligible for this program you must be at least 16 years of age and have a minimum grade 10 education.

## PRECAST CONCRETE FINISHER

**NOC#7282**

**Wage Rate:** \$18-\$58.85 per hour

**Job Description:** A Precast Concrete Finisher applies finishing techniques to precast concrete flooring, walls, patios and sidewalks either by hand or by machine. You will install fixtures into the concrete, replace or repair damaged concrete, expose aggregate in architectural concrete. You will also be applying chemicals to achieve certain effects, patterns and colours in precast concrete members.

**Work Environment:** You will be working outdoors in all types of weather. This job can be physically demanding as most of the work is done by hand or with large machinery. You will be working a standard 40 hour week with the possibility of overtime to complete projects on schedule.

**Requirements:** To become a certified Precast Concrete Finisher you must complete a 4500 hour Apprenticeship Program including in class training. To be eligible for this program you must be at least 16 years of age and have a minimum grade 10 education.

### Training Facilities/ Colleges:

- IUBAC Local 6 – Windsor (Non-TDA)

*“A Precast Concrete Finisher applies finishing techniques to precast concrete flooring, walls, patios and sidewalks either by hand or by machine.”*



# Construction Career Guide

## REFRACTORY MASON

**NOC#7281**

**Wage Rate:** \$20.50-\$58.85 per hour

**Job Description:** A Refractory Mason is someone who restores and or replaces materials that insulate structures from high heat. You will replace the linings or furnaces, kilns and basins with materials such as refractory brick, ceramic coatings, blankets and other materials that are highly resistant to extreme heat.

**Work Environment:** Most of your work will be carried out indoors. You may work with specialty tools for applying certain fire retardant coatings. When working on restoring chimneys you will be subject to working outdoors in all types of weather.

**Requirements:** To become a certified Refractory Mason you must possess a Certificate of Qualification in the Brick and Stone Mason trade. That program requires you to complete a 5600 hour Apprenticeship Program plus 3 x 8 weeks of in class training. To be eligible for this program you must be at least 16 years of age and have a minimum grade 10 education.

### Training Facilities/ Colleges:

#### TDA's (Training Delivery Agents)

- Ontario Masonry Training Institute – Ottawa
- Ontario Masonry Training Institute – Mississauga
- LIUNA 183 – Cobourg
- LIUNA 183 – Vaughan
- LIUNA Local 1059 – London
- IUBAC Local 6 – Windsor (Non-TDA)

#### Colleges

- Conestoga College
- Fanshawe College
- St. Clair College

## REINFORCING ROD WORKER

**BR 3**

**NOC#7236**

**Wage Rate:** \$33.46-\$59.60 per hour

**Job Description:** A Reinforcing Rod Worker installs the steel reinforcing in concrete structures. They cut, fabricate, weld and tie all reinforcing steel together before the pour of a concrete component. They will be working on all types of concrete structures including roads, infrastructure, bridges and skyscrapers.

**Work Environment:** You will be working outdoors in all weather conditions. A 40 hour work week is standard with the possibility of overtime in order to complete a project on schedule. Employers include construction companies, masonry contractors and residential and industrial building developers.

**Requirements:** To become a certified Reinforcing Rod Worker you must complete a 4000 hour Apprenticeship Program plus a 1 x 8 week and 1 x 4 week in class training. To be eligible for this program you must be at least 16 years of age and have a minimum grade 10 education.

### Training Facilities/ Colleges:

#### TDA's (Training Delivery Agents)

- Ironworkers Local 700 – Maidstone
- Ironworkers Local 721 – Etobicoke
- Ironworkers Local 736 – Hamilton



*"A Reinforcing Rod Worker installs the steel reinforcing in concrete structures."*

# Construction Career Guide



## RESTORATION MASON NOC#7281

**Wage Rate:** \$20.50-\$58.85 per hour

**Job Description:** A Restoration Mason performs similar tasks to a Brick and Stone Mason, however a Restoration Mason works on building that are very old and in need of a structural and or cosmetic update. You will be working on historic buildings and monuments in efforts to preserve them as well as old chimneys, smokestacks and foundations.

**Work Environment:** Your work will be carried out outdoors in all weather conditions. This job can be physically demanding due to the heavy materials, but can also be rewarding when helping to preserve a structure with historical significance.

**Requirements:** To become a certified Restoration Mason you must complete a 6000 hour Apprenticeship Program including in class training. You must be at least 16 years of age and have a minimum grade 10 education to be eligible for this program.

## Training Facilities/ Colleges:

### TDA's (Training Delivery Agents)

- Ontario Masonry Training Institute – Ottawa
- Ontario Masonry Training Institute – Mississauga
- LIUNA 183 – Cobourg
- LIUNA 183 – Vaughan
- LIUNA Local 1059 – London
- IUBAC Local 6 – Windsor (Non-TDA)

### Colleges

- Conestoga College
- Fanshawe College
- St. Clair College

*“This job can be physically demanding due to the heavy materials, but can also be rewarding when helping to preserve a structure with historical significance.”*

# Construction Career Guide

## REFRIGERATION AND AIR CONDITIONING SYSTEMS MECHANIC (HVAC TECHNICIAN) (COMPULSORY)

### NOC#7313

*Interprovincial Red Seal Certificate Available.*

**Wage Rate:** \$17-\$67.74 per hour

**Job Description:** Refrigeration and Air Conditioning Mechanics repair components of refrigeration and air conditioning systems in residential, commercial and industrial settings. You can specialize as a Central Air Conditioning Mechanic or a Heating and Cooling Mechanic. You will be working with ductwork electric motors and any other components relating to heating and cooling.

**Work Environment:** Working conditions depend on the job. You may be working indoors as well as outdoors. You may encounter dangerous situations when dealing with electricity and heights. Attention to safety procedures are very important. Your employers may include repair companies, government agencies, manufacturers or schools.

**Requirements:** To become a certified Refrigeration and Air Conditioning Mechanic you are required to complete a 9000 hour Apprenticeship Program plus 3 x 8 weeks of in class training. A combination of work experience in the trade along with high school and or college courses will also enable you to become certified. To be eligible for this program you must be at least 16 years of age and have a minimum grade 10 education.

### Training Facilities/ Colleges:

#### TDA's (Training Delivery Agents)

- UA Local 787 – Brampton

#### Colleges

- Algonquin College
- Cambrian College
- Centennial College
- Conestoga College
- Durham College

- Fanshawe College
- Fleming College
- Georgian College
- George Brown College
- Humber College
- Lambton College
- Mohawk College
- St. Clair College

## RESIDENTIAL AIR CONDITIONING MECHANIC (COMPULSORY)

### NOC#7313

*Interprovincial Red Seal Certificate Available.*

**Wage Rate:** \$17-\$67.74 per hour

**Job Description:** Air Conditioning Mechanics repair components of air conditioning systems in residential and sometimes commercial settings. You can specialize as a Central Air Conditioning Mechanic or a Heating and Cooling Mechanic. You will be working with ductwork electric motors and any other components relating to heating and cooling.

**Work Environment:** Working conditions depend on the job. You may be working indoors as well as outdoors. You may encounter dangerous situations when dealing with electricity and heights. Attention to safety procedures are very important. Your employers may include mechanical companies, government agencies, manufacturers or schools.

**Requirements:** To become a certified Residential Air Conditioning Mechanic you are required to complete a 9000 hour Apprenticeship Program plus 3 x 8 weeks of in class training. A combination of work experience in the trade along with high school and or college courses will also enable you to become certified. To be eligible for this program you must be at least 16 years of age and have a minimum grade 10 education.

### Training Facilities/ Colleges:

#### Colleges

- Fanshawe College

# Construction Career Guide



## ROOFER

### NOC#7291

*Interprovincial Red Seal Certificate Available.*

**Wage Rate:** \$12.50-\$53.55 per hour

**Job Description:** Working as a Roofer involves installing, repairing or replacing shingles or other roofing materials. After an Apprenticeship Program has been completed, you may become a foreperson, supervisor or even start your own roofing company.

**Work Environment:** Physical fitness and good upper body strength is important as roofers carry heavy equipment and materials. You must be comfortable working outdoors and with heights. The work in this trade is often seasonal and weather conditions are always a factor.

**Requirements:** To become a certified Roofer you are required to complete a 4000 hour Apprenticeship Program plus 2 x 8 weeks of in class training. Prior education and experience will reduce this time period. You must be at least 16 years of age and have a minimum grade 10 education to be eligible for this program.

### Training Facilities/ Colleges:

#### Colleges

- Conestoga College

## RESIDENTIAL (LOW RISE) SHEET METAL INSTALLER (COMPULSORY)

### NOC#7233

**Wage Rate:** \$18-\$53.55 per hour

**Job Description:** Residential Sheet Metal Installers build and install ductwork for HVAC systems as well as components for roofing and flashing. You will be working with different types of metal to cut shape and install components in a residential setting.

**Work Environment:** You can 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. However, manufacturing and shop work are done indoors. Physical fitness is also an asset.

**Requirements:** To become a certified Sheet Metal Worker, you are required to complete a 9000 hour Apprenticeship Program plus 3 x 8 weeks of in class training. To be eligible for this program you must be at least 16 years of age and have completed at least a grade 10 education.

### Training Facilities/ Colleges:

#### TDA's (Training Delivery Agents)

- Ontario Sheet Metal Training Center – Burlington
- Sheet Metal Workers and Roofers Local 285 Training Center – Etobicoke
- Sheet Metal Workers Local 235 – Windsor (Non-TDA)

#### Colleges

- Fanshawe College
- George Brown College
- Mohawk College
- St. Clair College

*“Residential Sheet Metal Installers build and install ductwork for HVAC systems as well as components for roofing and flashing.”*

# Construction Career Guide



## SHEET METAL WORKER (COMPULSORY)

**NOC#7233**

*Interprovincial Red Seal Certificate Available.*

**Wage Rate:** \$16.50-\$62.61 per hour

**Job Description:** Sheet Metal Workers build and install ductwork for air handling systems. They also work in the fabrication process. There are also 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 of galvanized iron, sheet steel, copper, nickel alloy, stainless steel, aluminum and sometimes plastic.

**Work Environment:** You can 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. However, manufacturing and shop work are done indoors. Physical fitness is also an asset.

**Requirements:** To become a certified Sheet Metal Worker, you are required to complete a 9000 hour Apprenticeship Program plus 3 x 8 weeks of in class training. To be eligible for this program you must be at least 16 years of age and have completed at least a grade 10 education.

### Training Facilities/ Colleges:

#### TDA's (Training Delivery Agents)

- Ontario Sheet Metal Training Center – Burlington
- Sheet Metal Workers and Roofers Local 285 Training Center – Etobicoke
- Sheet Metal Workers Local 235 – Windsor (Non-TDA)

#### Colleges

- Algonquin College
- Fanshawe College

- George Brown College
- Mohawk College
- St. Clair College

## STEAMFITTER / PIPEFITTER (COMPULSORY)

**NOC#7252**

*Interprovincial Red Seal Certificate Available.*

**Wage Rate:** \$23.50-\$64.95 per hour

**Job Description:** Steamfitters assemble, install, maintain and repair heating, cooling or industrial systems. These systems convey gasses, employ pneumatic tubing, involve air handling and form the infrastructure of oil refineries and nuclear power plants. An understanding of blueprints is important. You will be cutting and welding pipes together and pressurizing systems with air or liquid.

**Work Environment:** You can expect to work both indoors and outdoors. Attention to safety is important due the work performed on scaffolding, rigging and in and around trenches. Your employers may be pipeline construction contractors, steam generating plants, chemical and gas plants or utility companies.

**Requirements:** To become a certified Steamfitter/ Pipefitter you are required to complete a 9000 hour Apprenticeship Program plus 3 x 8 weeks of in class training. You must be at least 16 years of age and have completed a grade 10 education. There will be some overlap between a Plumber and Steamfitter.

### Training Facilities/ Colleges:

#### TDA's (Training Delivery Agents)

- UA Local 46 Joint Training Apprenticeship Committee – Scarborough
- UA Local 67

#### Colleges

- George Brown College
- Mohawk College
- Lambton College



# Construction Career Guide

## SPRINKLER AND FIRE PROTECTION INSTALLER

**NOC#7252**

*Interprovincial Red Seal Certificate Available.*

**Wage Rate:** \$23.50-\$64.95 per hour

**Job Description:** Sprinkler System Installers fabricate, install, test and maintain all types of fire suppression systems including water, foam, carbon dioxide, and dry chemical sprinkler systems in buildings.

**Work Environment:** Most of your work will be carried out indoors. You will be working in commercial and industrial settings. Attention to safety is important due the work performed on scaffolding and ladders. Your employers may include mechanical construction firms, plumbing contractors, heating and air conditioning contractors or building developers.

**Requirements:** To become a certified Fire Protection Installer you are required to complete a 7200 hour Apprenticeship Program plus 3 x 8 weeks of in class training. You must be at least 16 years of age and have completed a grade 10 education.

### Training Facilities/ Colleges:

#### TDA's (Training Delivery Agents)

- UA Local 853 – Markham

## TERRAZZO, TILE AND MARBLE INSTALLER

**NOC#7283**

*Interprovincial Red Seal Certificate Available.*

#### Wage Rate:

\$25.78-\$58.85  
per hour

**Job Description:** In this occupation you will cover interior and exterior walls, floors and ceilings with terrazzo, tile or marble. You will tile everything from floors, walls and ceilings to swimming pools. These finishes serve decorative and protective coverings these surfaces. In this job you have the ability to be creative with your designs and patterns. With the selection of materials out there today, possibilities are endless.

**Work Environment:** Most of your work will be carried out indoors. You will be working in commercial, industrial and residential settings. This job can be physically demanding as you work on your knees for most of the day especially when laying marble and tile. Potential employers may include flooring companies, masonry companies, general contractors or you may be self employed.

**Requirements:** To be a certified Terrazzo, Tile and Marble Installer you are required to complete an 8000 hour Apprenticeship Program which includes in class training. You must be at least 16 years of age and have completed a grade 10 education.

### Training Facilities/ Colleges:

#### TDA's (Training Delivery Agents)

- Terrazzo, Tile and Marble Trade School Inc. – Concord
- IUBAC Local 6 – Windsor (Non-TDA)



*“Attention to safety is important due the work performed on scaffolding and ladders.”*



## CONCRETE PUMP OPERATOR NOC#7611

**Wage Rate:** \$20–\$57.86 per hour

**Job Description:** A Concrete Pump Operator coordinates the placement of concrete throughout a jobsite. You will be placing concrete into forms by using a concrete pump that will easily move large quantities of concrete.

**Work Environment:** You will be working outdoors in all weather conditions. A 40 hour week is standard but you may be subject to some overtime in order to complete a job on schedule.

**Requirements:** To be a certified Concrete Pump Operator you must complete a 3000 hour Apprenticeship Program plus 160 hours of in class training. To be eligible for this program you must be at least 16 years of age and have a minimum grade 10 education.

### Training Facilities/ Colleges:

#### TDA's (Training Delivery Agents)

- Operating Engineers Training Institute of Ontario – Morrisburg
- Operating Engineers Training Institute of Ontario – Oakville

## CONSTRUCTION CRAFT WORKER

### NOC#7611

*Interprovincial Red Seal Certificate Available.*

**Wage Rate:** \$27.23–\$48.32 per hour

**Job Description:** In this occupation you will be preparing, excavating, backfilling, and cleaning up work sites. You will also be handling materials, shipping parts and receiving parts. Craft Workers operate machinery and tools around the job site on a regular basis.

**Work Environment:** Your work will be carried out outdoors in all weather conditions. This job can be physically demanding. You will be working full time with the possibility of shift work. Parts of your day may be spent traveling to different job sites.

**Requirements:** To be a certified Construction Craft Worker you must complete a 2400 hour Apprenticeship Program plus 2 x 8 weeks of in class training. You must be 16 years of age and have a minimum grade 10 education to be eligible for this program.

### Training Facilities/ Colleges:

#### TDA's (Training Delivery Agents)

- LIUNA 183 – Barrie
- LIUNA 183 – Cobourg
- LIUNA 183 – Vaughan
- LIUNA Local 1059 – London
- LIUNA Local 1089 – Sarnia
- LIUNA Local 493 – Val Therese
- LIUNA Local 506 – Downsview
- LIUNA Local 527 – Ottawa
- LIUNA Local 607 – Thunder Bay
- LIUNA Local 625 – Oldcastle
- LIUNA Local 837 – Hamilton

#### Colleges

- Boreal College
- Conestoga College
- Northern College

*“To be a certified Construction Craft Worker you must complete a 2400 hour Apprenticeship Program plus 2 x 8 weeks of in class training.”*

# Construction Career Guide

## EXTERIOR INSULATED FINISHING SYSTEMS MECHANIC (EIFS) NOC#7284

**Wage Rate:** \$20.31-\$55.75 per hour

**Job Description:** In this occupation you will be covering the exterior of buildings or parts of buildings with an insulated finishing system commonly known as stucco. An EIFS Mechanic covers the area with a continuous layer of rigid insulation and then proceeds to coat that insulation with a stucco like material.

**Work Environment:** Your every day tasks will take place outdoors in most weather conditions. An EIFS Mechanic has to be comfortable with heights and must be able to use hand tools efficiently. You will also be assembling scaffolding on some jobs where it is required.

**Requirements:** To be a certified Exterior Insulated Finishing Systems Mechanic you are required to finish a 3600 hour Apprenticeship Program that includes in class training.

### Training Facilities/ Colleges:

#### TDA's (Training Delivery Agents)

- Interior Finishing Systems Training Center – Woodbridge
- Interior Finishing Systems Training Center – Ottawa

## HAZARDOUS MATERIAL WORKER (HAZMAT)

**Wage Rate:**  
\$21-\$48.32 per hour

**Job Description:** As a Hazardous Material Worker you will identify, remove, package, transport and dispose of radioactive and nuclear waste, arsenic, lead, mercury and any other hazardous materials. You will sometimes have to respond to emergency situations when hazardous materials are present. Other responsibilities include routine inspections and identifying biological and physical hazards.

**Work Environment:** A HAZMAT Worker will mostly be working in industrial settings where hazardous materials may be present. Some may find work in residential areas where asbestos may be present. You will be required to wear protective clothing at all time when exposed to these materials.

**Requirements:** To be a certified Hazardous Material Worker you must complete a 3000 hour Apprenticeship Program including in class training. You must be at least 16 years of age and have a grade 12 education.

### Training Facilities/ Colleges:

#### TDA's (Training Delivery Agents)

- Interior Finishing Systems Training Center – Woodbridge
- Interior Finishing Systems Training Center – Ottawa



*“In this occupation you will be covering the exterior of buildings or parts of buildings with an insulated finishing system commonly known as stucco.”*

# Construction Career Guide



## HEAVY EQUIPMENT OPERATOR – DOZER, EXCAVATOR, TRACTOR LOADER BACKHOE NOC#7521

**Wage Rate:** \$23.24–\$60.11 per hour

**Job Description:** Heavy Equipment Operators operate heavy equipment such as backhoes, loaders, graders, dozers and excavators. You will work on the construction and maintenance of roads, bridges, underground pipelines, tunnels and buildings. Other duties include preoperational inspections, maintenance, and maintenance logs.

**Work Environment:** A Heavy Equipment Operator will be working outdoors in most weather conditions. You will communicate with co-workers through hand signals and radios when operating machinery. Your employers may include Municipal Governments, heavy construction firms, mining companies, logging companies, quarry companies and building construction firms.

**Requirements:** To be a certified Heavy Equipment Operator you must complete a 2260 hour Apprenticeship Program including in class training. You must be at least 16 years of age and have a grade 12 education.

### Training Facilities/ Colleges:

#### TDA's (Training Delivery Agents)

- Operating Engineers Training Institute of Ontario – Morrisburg
- Operating Engineers Training Institute of Ontario – Oakville

#### Colleges

- Conestoga College

*“Heavy Equipment Operators operate heavy equipment such as backhoes, loaders, graders, dozers and excavators.”*

# Engineering Professionals



## CIVIL ENGINEER NOC#2131

**Wage Rate:** \$26.67-\$57.09 per hour

**Job Description:** Civil Engineers are heavily involved with mathematics as they perform calculations on a daily basis when designing and building structures such as bridges, roads, highways, railways and sewer systems. They also perform estimates, supervise construction sites and prepare reports on project issues.

**Work Environment:** You will be spending most of your days in an office and or on job sites. In the office you will spend your time on the phone, on the computer and reading and interpreting blueprints. On job sites you will be solving problems, meeting with clients along with many other people involved with a project. Potential employers include engineering firms, government agencies and construction companies.

**Requirements:** To get a job in Civil Engineering you will require a minimum of a Bachelor's Degree. A Master's degree or PhD is often required for a senior level position or a research position. In order to become a Professional Engineer (P. Eng) you must pose a Master's Degree as well as work experience under an engineer before you can write the examination.

## MECHANICAL ENGINEER NOC#2132

**Wage Rate:** \$26-\$62.50 per hour

**Job Description:** As a Mechanical Engineer you will design machines and products using computer software. You will attend meetings with other engineers and managers to discuss expectations of a project as well as solving issues on current projects.

**Work Environment:** You will be spending most of your days in an office and or on job sites. In the office you will spend your time on the phone, on the computer and reading and interpreting blueprints. On job sites you will be solving problems, meeting with clients along with many other people involved with a project. Potential employers include manufacturing companies, engineering firms, government agencies and utility companies.

**Requirements:** To get a job in Mechanical Engineering you will require a minimum of a Bachelor's Degree. A Master's degree or PhD is often required for a senior level position or a research position. In order to become a Professional Engineer (P. Eng) you must pose a Master's Degree as well as work experience under an engineer before you can write the examination.

*"As a Mechanical Engineer you will design machines and products using computer software."*



# Engineering Professionals



## ENVIRONMENTAL ENGINEER

### NOC#2131

**Wage Rate:** \$20-\$55 per hour

**Job Description:** As an Environmental Engineer you will be performing a great deal of research. You will assess the environmental impact of large and small scale projects. You will inform developers on laws and policies that impact their projects. Helping design and build landfills, water treatment plants and toxic material storage and treatment plants.

**Work Environment:** The majority of your work will take place outdoors and on job sites. You will be working for environmental consulting firms, manufacturers and government agencies. A typical work week consists of 40-50 hours per week with the possibility of overtime. Some local travelling is not uncommon.

**Requirements:** To get a job in Environmental Engineering you will require a minimum of a Bachelor's Degree. A Master's degree helpful for advancement. In order to become a Professional Engineer (P. Eng) you must poses a Master's Degree as well as work experience under an engineer before you can write the examination.

## ELECTRICAL ENGINEER

### NOC#2133

**Wage Rate:** \$30-\$67.31 per hour

**Job Description:** As an Electrical Engineer you will use computer software to design electrical components, automation systems and control systems. You will attend meetings with other engineers and managers to discuss expectations of a project as well as solving issues on current

projects. Throughout the process you will test products to ensure efficiency.

**Work Environment:**

You will be spending most of your days in an office and or on job sites. In the office you will spend your time on the phone, on the computer and reading and interpreting blueprints. On job sites you will be solving problems, meeting with clients along with many other people involved with a project. You will find yourself working for engineering firms, large industrial plants or power generation plants.

**Requirements:** To get a job in Electrical Engineering you will require a minimum of a Bachelor's Degree. A Master's degree or PhD is often required for a senior level position or a research position. In order to become a Professional Engineer (P. Eng) you must poses a Master's Degree as well as work experience under an engineer before you can write the examination.

*"As an Environmental Engineer you will be performing a great deal of research."*

# Architectural Professionals



## ARCHITECT NOC#2151

**Wage Rate:**  
\$34-\$67.31 per hour

### **Job Description:**

Architects design and oversee the construction of houses, schools, hospitals and towers. This profession allows you to be creative in the use of materials and the overall appearance of not only just the building but the appearance of a city as well. You will part take in many meetings with clients, engineers and contractors on a regular basis. This job requires creativity, good work ethic and excellent communication skills. This profession can be stressful but very rewarding after seeing a finished building.

**Work Environment:** You may find yourself working for a variety of different sized firms, contractors or you may be self-employed. Most of your time will be spent in an office and on construction sites solving problems and answering questions. Your hours vary greatly with the time of year and the number of projects going on at a given time.

**Requirements:** To become an Architect you must obtain a Master's Degree, as well as working under an Architect for 3 years before writing an examination. Each province has their own licensing requirements but all require 3 years under a licensed architect plus the examination.

## ESTIMATOR NOC#2234

**Wage Rate:** \$20.19-\$48.08 per hour

**Job Description:** An Estimator analyzes and estimates the costs of construction projects. You will analyze drawings and produce a total cost estimate to present to a client. Computer programs are used to help organize and keep track of the costs of each stage of the project. You may also be taking bids

from subcontractors to determine who should be hired for each job.

**Work Environment:** You may find yourself working for contractors and consultants. Most of your time will be spent in an office performing take offs. You will be working a standard 40 hour week with the possibility of overtime in order to bid on a project on time.

**Requirements:** To become an Estimator you should have a very good knowledge base in construction. A minimum of a diploma in Architectural Technology or a related field such as Civil Engineering will be required. A Bachelor's Degree may also be required.

## PROJECT MANAGER NOC#0711

**Wage Rate:** \$20-\$50 per hour

**Job Description:** A Project Manager meets with clients, Architects, Engineers and Contractors to develop a schedule for any given construction project. A Project Manager may also calculate costs, labor and materials as well as creating a budget and tracking funds that have been spent. You will also visit the job site on a regular basis to ensure projects are on schedule and on budget. Communication and organizational skills are very important.

**Work Environment:** You will be working in the office as well as on the job sites. Project Managers communicate with a variety of different people every day in the office and on the job site so travelling to job sites is usually required. A 40 hour week is standard but some overtime can be expected when trying to keep a project on schedule.

**Requirements:** A Bachelor's Degree in Civil Engineering or in Architecture is sometimes required. Most Project Managers have a diploma in Construction Management, Architecture or Civil Engineering. A good knowledge base of construction is very important.

# Architectural Professionals

## BUILDING INSPECTOR

**NOC#2264**

**Wage Rate:** \$23-\$42 per hour

**Job Description:** A Building Inspector will analyze blueprints to ensure new construction and renovations are structurally safe and adhere to local bylaws. Inspectors will visit job sites before construction begins to ensure that the site is safe to build on. Regular visits to the site at all stages of construction will ensure that everything is being built to code.

**Work Environment:** You will work a standard 40 hour work. Most of your time will be spent outdoors in all weather conditions and in an office. Visits to job sites are a daily basis. Hard hats, safety shoes and safety glasses are required to be worn on all job sites as you will be inspecting all aspects of construction. Sometimes you will be climbing ladders to inspect roofs as well as inspecting small spaces like duct work.

**Requirements:** A combination of a college diploma in architectural technology and construction experience is typically required to be a Building Inspector. Sometimes a degree will be required depending on the employer.

## URBAN PLANNER

**NOC#2153**

**Wage Rate:** \$20.51-\$59 per hour

**Job Description:** An Urban Planner is responsible for analyzing and preparing proposals for zoning, transportation, public utilities, facilities, parks and housing. This is a very important job because cities must use their land efficiently. If cities do not use their land wisely they will fail economically. An Urban Planner will develop plans and programs for land use in urban areas. Duties will include research, preparation and presentation of proposals in efforts to build a strong community that has a sense of place for its residents.

**Work Environment:** You will be working a standard 40 hour week typically in an office setting. Meetings and interviews with residents, developers and politicians are a regular occurrence. Urban Planners are often hired by municipalities, government agencies and construction and engineering firms.

**Requirements:** To become an Urban Planner you must have at least an undergraduate degree in Urban Planning. A Master's Degree is sometimes required and can open up further opportunities.



*“An Urban Planner is responsible for analyzing and preparing proposals for zoning, transportation, public utilities, facilities, parks and housing.”*

# Training Delivery Agents (TDA's)

TRAINING CENTRE	LOCATION	APPRENTICESHIP	CONTACT
Ontario Masonry Training Institute	Mississauga	Brick and Stone Mason	<a href="http://www.ontariomasonrytrainingcentre.com">www.ontariomasonrytrainingcentre.com</a> 1-855-795-OMTC (6682)
Terrazzo, Tile and Marble Trade School Inc.	Concord	Terrazzo, Tile and Marble Installer	<a href="http://www.ttmgo.org">www.ttmgo.org</a> 905-660-5094
Carpenters Local 18	Hamilton	Drywall, Finisher and Plasterer	<a href="http://www.thecarpentersunion.ca">www.thecarpentersunion.ca</a> 905-522-0752
Carpenters Local 27	Vaughan	General Carpenter Floor Covering Installer Drywall, Acoustics and Lathing Applicator	<a href="http://www.carpenterstraining.ca">www.carpenterstraining.ca</a> 905-652-5507
OPCMIA Local 598	Etobicoke	Cement Mason	<a href="http://www.opcmialocal598.com">www.opcmialocal598.com</a> 905-856-9000
IBEW 353 West Training Centre	Mississauga	Electrical - Construction and Maintenance	<a href="http://www.ibew353.org">www.ibew353.org</a> 416-510-3530
Elevator Constructors Local 50	Ajax	Elevating Devices Mechanic	<a href="http://www.iuec50.org">www.iuec50.org</a> 416-754-2424
Elevator Local 90	Hamilton	Elevating Devices Mechanic	
International Association of Heat and Frost Workers Local 95	Markham	Heat and Frost Insulator	<a href="http://www.insulators95.com">www.insulators95.com</a> 1-800-268-3396
Ironworkers Local 700	Maidstone	Ironworker - Structural and Ornamental Br2 Reinforcing Rod Worker Br3	<a href="http://www.ironworkerslocal700.com">www.ironworkerslocal700.com</a> 519-737-7110
Ironworkers Local 721	Etobicoke	Ironworker - Generalist Br1 Reinforcing Rod Worker Br3	<a href="http://www.iw721.org">www.iw721.org</a> 416-232-1046
Ironworkers Local 736	Hamilton	Ironworker - Structural and Ornamental Br2 Reinforcing Rod Worker Br3	<a href="http://www.iw736.com">www.iw736.com</a> 905-304-5408
LIUNA 183	Vaughan	Construction Craft Worker Cement Mason Brick and Stone Mason	<a href="http://www.liunalocal183.ca">www.liunalocal183.ca</a> 1-877-834-1183
LIUNA Local 1059	London	Construction Craft Worker Cement Mason Brick and Stone Mason	<a href="http://www.liunalocal1059.com">www.liunalocal1059.com</a> 519-455-5299
LIUNA Local 1089	Sarnia	Construction Craft Worker	<a href="http://www.local1089.ca">www.local1089.ca</a> 519-332-1089

# Training Delivery Agents (TDA's)

TRAINING CENTRE	LOCATION	APPRENTICESHIP	CONTACT
LIUNA Local 506	Downsview	Construction Craft Worker	<a href="http://www.liuna-local506.ca">www.liuna-local506.ca</a> 1-877-883-4268
LIUNA Local 607	Thunder Bay	Construction Craft Worker	<a href="http://www.liunalocal607.ca">www.liunalocal607.ca</a> 807-622-0607
LIUNA Local 625	Oldcastle	Construction Craft Worker Asbestos Abatement Worker	<a href="http://www.liunalocal625.org">www.liunalocal625.org</a> 519-737-0373
LIUNA Local 837	Hamilton	Construction Craft Worker Cement Finisher	<a href="http://www.liunalocal837.com">www.liunalocal837.com</a> 1-866-548-6283
Operating Engineers Training Institute of Ontario	Oakville	Hoisting Engineer: Mobile Crane Operator BR1 Heavy Equipment Operator: Excavator Hoisting Engineer: Mobile Crane Operator BR2	<a href="http://www.oetio.com">www.oetio.com</a> Morrisburg Campus: 1-877-543-3549 Oakville Campus: 1-877-793-4863
Interior Finishing Systems Training Centre	Woodbridge	Drywall, Acoustics and Lathing Applicator Drywall, Finisher and Plasterer Hazardous Material Worker	<a href="http://www.ifstc.com">www.ifstc.com</a> 416-740-5411
Ontario Industrial and Finishing Skills Centre	Toronto	Painter and Decorator BR1: Commercial & Residential Painter and Decorator BR2: Industrial Architectural Glass and Metal Technician	<a href="http://www.oifsc.com">www.oifsc.com</a> 416-635-7300
UA Local 46 Joint Training Apprenticeship Committee	Scarborough	Plumber Welder Steamfitter	<a href="http://www.ualocal46.org">www.ualocal46.org</a> 416-759-9351
UA Local 552	Windsor	Plumber	<a href="http://www.ualocal552.com">www.ualocal552.com</a> 519-946-9995
UA Local 67	Hamilton	Plumber Steamfitter	<a href="http://www.ualocal67.com">www.ualocal67.com</a> 905-385-0043
UA Local 787	Brampton	Refrigeration and Air Conditioning Systems Mechanic	<a href="http://www.ualocal787.org">www.ualocal787.org</a> 1-800-387-9121
Ontario Sheet Metal Training Centre	Burlington	Sheet Metal Worker	<a href="http://www.osmwtc.com">www.osmwtc.com</a>
Sheet Metal Workers and Roofers Local 285 Training Centre	Etobicoke	Sheet Metal Worker	416-630-1160
UA Local 853	Markham	Sprinkler and Fire Protection Installer	<a href="http://www.ualocal853.org">www.ualocal853.org</a> 905-477-6022



# College Of Applied Arts & Technology

COLLEGE	CONTACT	PROGRAM
Centennial College	<p>www.centennialcollege.ca</p> <p>Progress Campus 941 Progress Ave. Toronto, ON M1G 3T8 416-289-5000 ext. 2356</p>	<p>Electrician - Construction and Maintenance</p> <p>Refrigeration and Air Conditioning Mechanic</p>
Conestoga	<p>www.conestogac.on.ca</p> <p>Doon Campus 299 Doon Valley Drive Kitchener, ON N2G 4M4 519-748-5220</p> <p>Waterloo College 108 University Ave. East Waterloo, ON N2J 2W2 519-885-0300</p> <p>Guelph Campus 460 Speedvale Ave. West Guelph ON N1H 6N6 519-824-9390</p> <p>Cambridge Campus 850 Fountain St. South Cambridge, ON N3H 0A8 519-748-5220</p>	<p>Brick and Stone Mason</p> <p>Construction Craft Worker</p> <p>Electrician - Construction and Maintenance</p> <p>General Carpenter</p> <p>Heavy Equipment Operator - Dozer</p> <p>Heavy Equipment Operator - Excavator</p> <p>Heavy Equipment Operator - Backhoe</p> <p>Plumber</p> <p>Roofer</p> <p>Welder</p>
Durham College	<p>www.durhamcollege.ca</p> <p>Whitby Campus 1610 Champlain Ave. Whitby, ON L1N 6A7 905-721-3300</p>	<p>Electrician - Construction and Maintenance</p> <p>Hoisting Engineer - Branch I and II</p> <p>Plumber</p>
Fanshawe College	<p>www.fanshawec.ca</p> <p>London Campus 1001 Fanshawe College Blvd. London, ON N5Y 5R6 519-452-4430</p> <p>St. Thomas/Elgin Campus 120 Bill Martyn Parkway St. Thomas, ON N5R 6A7 519-633-2030</p>	<p>General Carpenter</p> <p>Plumber</p> <p>Electrician - Construction and Maintenance</p> <p>Brick and Stone Mason</p> <p>Sheet Metal Worker</p> <p>Residential Air Conditioning Mechanic</p>

# College Of Applied Arts & Technology

COLLEGE	CONTACT	PROGRAM
George Brown College	<p><a href="http://www.georgebrown.ca">www.georgebrown.ca</a></p> <p>Casa Loma Campus 160 Kendal Avenue Toronto, ON M5R 1M3 416-415-2000</p>	<p>Electrician</p> <p>General Carpenter</p> <p>Plumber</p> <p>Sheet Metal Worker</p> <p>Steamfitter</p> <p>Refrigeration and Air Conditioning Mechanic</p>
Georgian College	<p><a href="http://www.georgianc.on.ca">www.georgianc.on.ca</a></p> <p>Apprenticeship Office 1-866-224-9232 Midland Campus 649 Prospect Blvd Midland, ON L4R 3K6</p> <p>Muskoka Campus 111 Wellington St. Bracebridge, ON P1L 1E2</p> <p>Owen Sound Campus 1450 8th St. East Owen Sound, ON N4K 5R4</p>	<p>General Carpenter</p> <p>Electrician - Construction and Maintenance</p> <p>Plumber</p>
Humber College	<p><a href="http://www.humber.ca">www.humber.ca</a></p> <p>Humber North Campus 205 Humber College Blvd. Toronto, ON M9W 5L7 416-657-5000</p>	<p>Construction Boilermaker</p> <p>Electrician - Construction and Maintenance</p> <p>Plumber</p>
Lambton College	<p><a href="http://www.lambton.on.ca">www.lambton.on.ca</a></p> <p>1457 London Rd. Sarnia, ON N7S 6K4 519-542-7751</p>	<p>Carpenter</p> <p>Electrician - Construction and Maintenance</p>

# College Of Applied Arts & Technology

COLLEGE	CONTACT	PROGRAM
Mohawk College	<p><a href="http://www.mohawkcollege.ca">www.mohawkcollege.ca</a></p> <p>481 Barton St. Stoney Creek, ON L8E 2L7 905-575-1212 ext. 5000</p>	<p>Electrician - Construction and Maintenance</p> <p>General Carpenter</p> <p>Plumber</p> <p>Roofer</p> <p>Sheet Metal Worker</p> <p>Steamfitter</p> <p>Refrigeration and Air Conditioning Mechanic</p> <p>Welder</p>
St. Clair College	<p><a href="http://www.stclaircollege.ca">www.stclaircollege.ca</a></p> <p>Windsor Main Campus 2000 Talbot Rd. Windsor, ON N9A 6S4 519-966-1656</p>	<p>Brick and Stone Mason</p> <p>Electrician - Construction and Maintenance</p> <p>General Carpenter</p> <p>Plumber</p>
St. Lawrence College	<p><a href="http://www.sl.on.ca">www.sl.on.ca</a></p> <p>Kingston Campus 100 Portsmouth Ave. Kingston, ON K7L 5A6 613-544-5400</p> <p>Cornwall Campus 2 Belmont St. Cornwall, ON K6H 4Z1 613-933-6080</p>	<p>General Carpenter</p> <p>Electrician - Construction and Maintenance</p> <p>Plumber</p>
Sheridan College	<p><a href="http://www.sheridaninstitute.ca">www.sheridaninstitute.ca</a></p> <p>Skills Training Center 407 Iroquois Shore Road Oakville, ON L6H 1M3 905-845-9430</p>	<p>Electrician - Construction and Maintenance</p>