

# Construction Academy

*Building Our Community*



New for September 2017

# New for Fall 2017

Welcome to  
the future of  
Construction in Canada

# CONSTRUCTION ACADEMY

*Building Our Community*

BEGIN AN  
APPRENTICESHIP WHILE  
STILL IN HIGH SCHOOL!

[WEConstructionacademy.ca](http://WEConstructionacademy.ca)

# Our Community and Industry Partners

Workforce WindsorEssex

Ontario Masonry Centre

Habitat for Humanity

Windsor Construction Association

Windsor Essex Home Builders' Association

St. Clair College

Ministry of Advanced Education & Skills Development

School-College-Work Initiative

Ontario Youth Apprenticeship Program



# Labour market outlook in Construction

Katie Renaud

Workforce Windsor Essex



YOUR LOCAL EMPLOYMENT PLANNING COUNCIL



### PROJECTED GROWTH OCCUPATIONS

- Construction Labourer
- Project Managers
- Construction Millwrights
- Contractors, Supervisors & Carpentry Trades

### AVAILABLE LOCAL TRAINING

- Ontario Youth Apprenticeship

#### ST. CLAIR COLLEGE

- Apprenticeship
- Carpentry Techniques
- Electrical Techniques
- Welding Techniques
- Plumbing Techniques
- Architectural Technology
- Civil Engineering Technology
- Electronics Engineering Technology

#### UNIVERSITY OF WINDSOR

- Civil Engineering
- Electrical Engineering

**Number of Job Postings: 18** For December- May 2016, classifiable by industry Source: Vicinity Jobs, 2016

## CONSTRUCTION



### 2744 BUSINESSES

Source: Canadian Business Counts

**WEskills**  
DATABASE  
*Be a part of it!*

WITHOUT  
EMPLOYEES

MICRO  
(1-4)

SMALL  
(5-99)

MEDIUM  
(100-499)

LARGE  
(500+)

# Quarterly Employer Bulletin Two: The Construction Sector

September 2016

## Location of Respondents

8 Respondents



88%

Hired employees in the last 3 months

Full time: 80%  
Part-time: 4%  
Contract: 4%  
Seasonal: 12%

## Top Positions Hired For

Architectural Drafter

\$12.01-\$20.00

General Labourer

\$30.01-\$35.00

Plumber

\$25.01-\$45.00

CAD Operator

\$15.01-\$20.00

Plumber Apprentice

\$15.01-\$20.00

Restoration Mechanic

\$25.01-\$30.00

Toronto (74.75%)  
Windsor (57.62%)  
1 Lakeshore (37.50%)

This quarter, local employers participated in the Quarterly Survey. Respondents were asked to provide information on their organization's workforce. The aggregated responses are found on this page.

Join in the conversation at  
[www.workforcewindsorsssex.com](http://www.workforcewindsorsssex.com)

48% Of new hires were youth

17%

Were students

50%

Were recent grads

## Top 4 Reasons Positions Were Hard to Fill

- 1 Lack of qualifications (educational level/credentials)
- 2 Lack of work experience
- 3 Lack of technical skills
- 4 No applicants at all

29%

Had hard-to-fill positions

## Top Hard-to-Fill Positions

Architectural Drafter

\$15.01-\$20.00

Construction Estimator

\$25.01-\$30.00

Project Coordinator

\$15.01-\$20.00

Project Manager

\$35.01-\$40.00

50% Experienced separations

Quits: 11%  
Temporary Layoffs: 85%  
Permanent Layoffs: 0%  
Dismissals: 4%

71%

Plan to hire in the next 3 months



## Anticipated Hires

Accounts Receivable Clerk

\$15.01-\$20.00

General Labourer

\$12.01-\$15.00

Project Coordinator

\$15.01-\$20.00

Project Manager

\$20.01-\$25.00

Restoration Mechanic

\$25.01-\$30.00

## Top Barriers to Growth Experienced by Organizations

- Workforce skills shortage
- Industry slowdown

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## Top Barriers to Growth Experienced by Organizations

- Workforce skills shortage
- Industry slowdown



# Windsor Star, April 12, 2107

“Windsor’s housing boom could have been even hotter. Dennis Gerrard of the local homebuilders’ association said a shortage of skilled workers in the home construction trades has created a “bottleneck” in getting new homes quicker to market.”

## New home construction in 'red-hot' Windsor up 75 per cent



DOUG SCHMIDT, WINDSOR STAR

[More from Doug Schmidt, Windsor Star \(HTTP://WINDSORSTAR.COM/AUTHOR/DOUG-SCHMIDT-WINDSOR-STAR\)](http://WINDSORSTAR.COM/AUTHOR/DOUG-SCHMIDT-WINDSOR-STAR)



CHRIS THOMPSON, WINDSOR STAR

[More from Chris Thompson, Windsor Star \(HTTP://WINDSORSTAR.COM/AUTHOR/CHRIS-THOMPSON-WINDSOR-STAR\)](http://WINDSORSTAR.COM/AUTHOR/CHRIS-THOMPSON-WINDSOR-STAR)

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## Construction Industry

The construction industry is the second largest industry in North America. If you think it's all about hammering nails and pouring cement, think again. Construction is a \$130-billion industry that accounts for more than 12% of Canada's economy. Because of its magnitude, it offers a great deal of career opportunities.





# The future in construction looks bright

This industry needs sharp, talented, and competent young people. It needs people like you! Due to an aging workforce, this industry needs them now and will need them next year, five years from now, and thereafter. Hundreds of jobs and a major economic boost for Windsor is less than a couple years away now that the final stage of bidding has been launched to select a builder for the Gordie Howe International Bridge. Positions in this industry have been hard to fill due to a lack of qualified applicants. In a recent employer survey, 71% of employers plan to hire in the next year.



# Construction Myths

1. "Construction work is just tool-slinging."
2. "You need a university degree to get a good job."
3. "People end up in construction because they have no other career choices."
4. "Construction is an ordinary job that nobody respects."
5. "Working in construction is dangerous."
6. "Construction workers are mostly men with little respect for women workers."
7. "Construction work pays poorly."
8. "Construction is only done during the summer."



# Employment in the Construction sector

- 30 different trades to choose from
- Opportunity for advancement to foreperson, supervisor, estimator, project manager or business owner
- It's a huge industry with lots of room for people whose interests lie in everything from design and finishing to supply and sales

**If you are looking for a career with year round employment, good income, technology, career advancement, variety, opportunities and challenge, the chance to create something that lasts and is useful, the chance to work on a team – then choose a career in the construction industry**

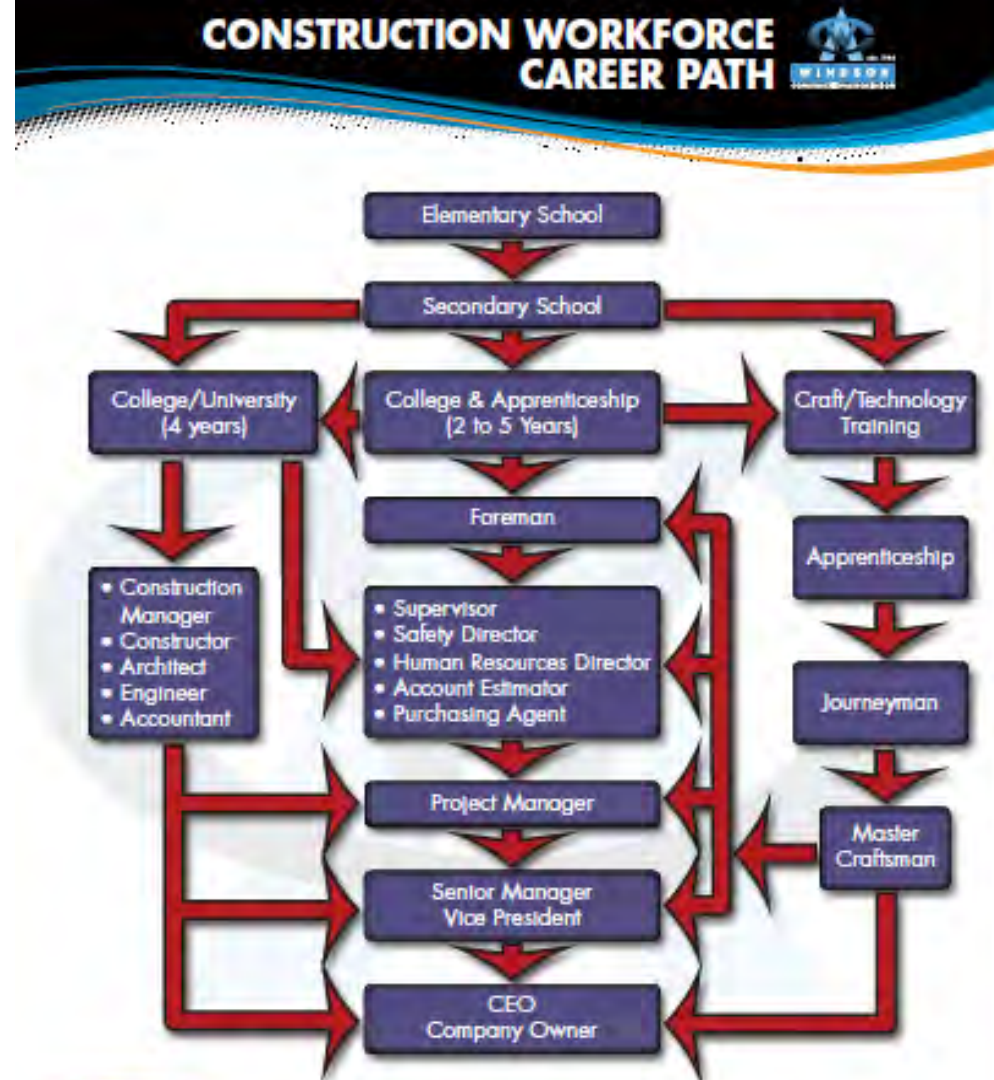


# Many opportunities...

- Electrical
- Plumbing
- Heating and cooling
- Heavy construction
- Carpentry
- Drywall and acoustics
- Framing
- Bricklaying, masonry
- General labourer under General Contractor
- Ironworker
- Roofing / siding
- Tile setting / floor installer



# Construction Career Path







## BUILD A FOUNDATION FOR YOUR CONSTRUCTION CAREER

The construction industry is the second largest industry in North America and because of its magnitude, offers a great deal of career opportunities. The Construction Career Guide contains useful information that will help you along your path to success in the construction industry.



Scan and visit our site...

[www.wca.on.ca](http://www.wca.on.ca)  
[construction@wca.on.ca](mailto:construction@wca.on.ca)



## Career Education Opportunities

- BRICK AND STONE MASON
- CASINEMARKER
- CEMENT FINISHER
- CONSTRUCTION BOILERMAKER
- CONSTRUCTION CRAFT WORKER
- CONCRETE MASON
- CONCRETE PUMP OPERATOR
- DRYWALL, ACQUISITIONS AND LATHING APPLICATOR
- DRYWALL FINISHER AND PLASTERER
- ELECTRICIAN CONSTRUCTION AND MAINTENANCE (Compulsory)
- ELECTRICIAN DOMESTIC AND RURAL (Compulsory)
- EXTERIOR INSULATION FINISHING SYSTEMS MECHANIC (EIFS)
- FLOOR COVERING INSTALLER
- GENERAL CARPENTER
- GLAZIER
- HAZARDOUS MATERIAL WORKER (HA/MA)
- HEAT AND FROST INSULATOR
- HEAVY DUTY EQUIPMENT TECHNICIAN
- HEAVY EQUIPMENT OPERATOR
- HOISTING ENGINEER - TOWER CRANE OPERATOR (Compulsory)
- INFORMATION TECHNOLOGY: HARDWARE TECHNICIAN
- IRONWORKER GENERALIST BRANCH
- IRONWORKER STRUCTURAL AND ORNAMENTAL BRANCH
- METAL FABRICATOR
- MILLWRIGHT (CONSTRUCTION)
- MOBILE CRANE OPERATOR
- PAINTER & DECORATOR BRANCH - COMMERCIAL/RESIDENTIAL
- PAINTER AND DECORATOR BRANCH - INDUSTRIAL
- PLUMBER (Compulsory)
- POWERLINE TECHNICIAN
- PRECAST CONCRETE ERECTOR
- PRECAST CONCRETE FINISHER
- REFRIGERATION/AIR CONDITIONING MECHANIC (HVAC TECH) (Compulsory)
- REFRACTORY MASON
- REINFORCING ROD WORKER BR 3
- RESIDENTIAL AIR CONDITIONING MECHANIC (Compulsory)
- RESTORATION MASON
- ROOFER
- SHEET METAL INSTALLER (Compulsory) RESIDENTIAL (LOW RISK)
- SHEET METAL WORKER (Compulsory)
- SPRINKLER AND FIRE PROTECTION INSTALLER
- STEAMFITTER / PIPEFITTER
- TERRAZZO, TILE AND MARBLE INSTALLER
- WELDER
- ARCHITECT
- BUILDING INSPECTOR
- ESTIMATOR
- PROJECT MANAGER
- URBAN PLANNER
- CIVIL ENGINEER
- ELECTRICAL ENGINEER
- ENVIRONMENTAL ENGINEER
- MECHANICAL ENGINEER





# Why choose a career path in Construction?

- You can take pride in the work you do and see the results every day
- You can be part of a vibrant community that continually impacts the Canadian way of life
- There are many ways to build a long and rewarding career—you can become a supervisor, get into planning or management ... even start your own business
- There are dozens of careers to choose from and four construction sectors—that means limitless opportunities to advance and plenty of chances to travel across Canada and around the world
- The industry is built on team work—you have the chance to work with Canada's top construction professionals
- Whether you're a skilled construction worker or manager you can earn up to six figures annually

# Program Overview



# Two Focus Streams, Two Locations

General Carpentry : St.Joseph's

Brick and Stone Masonry: F.J. Brennan

Schools are located 7.2 km apart, 11 minute drive





# Program Overview

This program incorporates a combination of learning experiences including: in school Construction Technology credits, Dual Credits, Co-op credits, and an accelerated OYAP component with two (2) focus streams, namely: Carpentry and Masonry. An opportunity to expedite a student's apprenticeship journey will be achieved by offering a Level 1 apprenticeship (Basic Level) in-school curriculum for the trades of: Brick and Stone Mason and General Carpenter.

The program will be delivered at two (2) WECDSB high schools: **F. J. Brennan CHS** and **St. Joseph's CHS** but is open to all WECDSB students.



## Construction Academy Student Timetable

Common

Carpentry

Masonry

	Grade 11		Summer	Grade 12		
	Semester 1	Semester 2		Session	Semester 1	Semester 2
Period	Sept – Jan	Feb – June		July – Aug	Sept – Jan	Feb – June
1	TCM3E Construction Technology: Masonry (F. J. Brennan)	Religion (eLearning)		Paid Co-op	TCJ4C Construction Engineering Technology (St. Joseph's)	Dual Credits: Level 1 Apprenticeship: Brick and Stone Mason 240 hrs (Ontario Masonry Training Centre)  TCM4E Construction Technology: Masonry (F. J. Brennan)
2	English (home school)	TCC3E Construction Technology: Carpentry (St. Joseph's)	Dual Credit: Masonry Theory (Ontario Masonry Training Centre)	Paid Co-op	Co-op	Dual Credits: Level 1 Apprenticeship: Brick and Stone Mason 240 hrs (Ontario Masonry Training Centre)  TDJ40 Technological Design (Home School) OR Science or Business for SHSM candidates
Lunch						
3	Mathematics (home school)	Co-op		Paid Co-op	Co-op	English (home school)
4	TCJ3C Construction Engineering Technology (St. Joseph's)	Co-op and Dual Credit: Home Renovation Trade Skills or Electricity 1		Paid Co-op	Religion (eLearning) and Dual Credit: Electricity 1 or Home Renovation Trade Skills	Religion (eLearning)  Mathematics (home school)



**Construction Academy Student Schedule: Common**
**Carpentry**
**Masonry**

Time		Period	Grade 11		Summer	Grade 12		
FJB	St J		Semester 1	Semester 2	Session	Semester 1	Semester 2	
			Sept – Jan	Feb – June	July – Aug	Sept – Jan	Feb – June	
8:20 9:36	8:53 10:12	1	TCM3E – Construction Technology: Masonry (F. J. Brennan)	Feb – March HRF30 – Faith and Culture: World Religion (eLearning) April, May, June: Co-op <sup>3</sup> (TCJ3C9)	Paid Co-op	Sept, Oct, Nov: Co-op TCC3E9 Dec – Jan: TCJ4C – Construction Engineering Technology (St. Joseph's)	Sept – Oct: Co-op (TCM3E9) Nov – Jan: Dual Credits: TSZ4Y/OZK4T Level 1 Apprenticeship: Brick and Stone Mason -240 hrs (Ontario Masonry Training Centre)	TCM4E – Construction Technology: Masonry (F. J. Brennan)
9:41 11:00	10:17 11:36	2	English (home school)	Feb – March HRF30 – Faith and Culture: World Religion (eLearning) April, May, June: Co-op <sup>3</sup> (TCJ3C9)	Paid Co-op	Sept, Oct, Nov: Co-op <sup>3</sup> TCC3E9 Dec – Jan: TCJ4C – Construction Engineering Technology (St. Joseph's)	Sept – Oct: Co-op (TCM3E9) Nov – Jan: Dual Credits: TSZ4Y/OZK4T Level 1 Apprenticeship: Brick and Stone Mason -240 hrs (Ontario Masonry Training Centre)	TDJ40 – Technological Design in the 21 <sup>st</sup> Century (Home School) Or Science or Business for SHSM candidates
11:00 11:40	11:36 12:16	Lunch						
11:45 1:00	12:16 1:36	3	Mathematics (home school)	Feb – March: TCC3E – Construction Technology: Carpentry (St. Joseph's) April, May, June Co-op (TCJ3C9)	Paid Co-op	Sept, Oct, Nov: Co-op (TCC3E9) Dec – Jan: HRE40 – Church and Culture (eLearning)	Sept – Oct: Co-op (TCM3E9) Nov – Jan: Dual Credits: TSZ4Y/OZK4T Level 1 Apprenticeship: Brick and Stone Mason -240 hrs (Ontario Masonry Training Centre)	English (home school)
1:05 2:20	1:35 2:49	4	TCJ3C – Construction Engineering Technology (St. Joseph's)	Feb – March: TCC3E – Construction Technology: Carpentry (St. Joseph's) April, May, June: Co-op (TCJ3C9) Dual Credit: TSP4T/BDT210 Home Renovation Trade Skills or TNK4T/ELC 12- Electricity 1	Paid Co-op	Sept, Oct, Nov: Co-op (TCC3E9) Dec – Jan: HRE40 – Church and Culture (eLearning) and St. Clair College Dual Credit: TNK4T/ELC 12-Electricity 1 or TSP4T/BDT210 Home Renovation Trade Skills	Sept – Jan: HRE40 <sup>1</sup> – Church and Culture (eLearning)	Mathematics (home school)



# Technology Credits



## Carpentry Focus

Year 1:      TCM3E Construction Technology **Masonry**  
  
                 TCJ3C Construction Engineering Technology  
  
                 TCC3E Construction Technology **Carpentry**

Year 2:      TCJ4C Construction Engineering Technology  
  
                 TCM4E Construction Technology **Masonry**  
  
                 TDJ40 Technological **Design**

## Masonry Focus

Year 1:      TCM3E Construction Technology **Masonry**  
  
                 TCJ3C Construction Engineering Technology  
  
                 TCC3E Construction Technology **Carpentry**

Year 2:      TCM4E Construction Technology **Masonry**  
  
                 TDJ40 Technological **Design**

# Dual Credits



## Carpentry Focus

BDT210 Home Renovation Trade Skills (45 hours)

ELC 12 Electricity 1 (45 hours)

WLD208 Basic Welding Process & Fabricating (45 hours)

2 of 3 above taken one day per week for 15 weeks

Sem 2 in Grade 11 and

Sem 1 in Grade 12

## Masonry Focus

### Year 1:

BDT210 Home Renovation Trade Skills

OR ELC 12 Electricity 1 (45 hours)

taken one day per week for 15 weeks

MASO1320: Masonry Theory (80 hours)

### Year 2: OZK4T Level 1 Apprenticeship:

Brick and Stone Mason (240 hours, 2 credit value) taken November, December and January

# Students in Dual Credit Home Renovation Trade Skills course at St Clair College



# Co-operative Education Opportunities



## Carpentry Focus:

Year 1: April, May, June: full day 4 days per week (2 credits, min 220 hours)

Summer: Paid Co-op 2 credits and up to 400 hours

Year 2: Sept, Oct, November: full day 4 days per week (min 220 hours)

## Masonry Focus:

Year 1: April, May, June: 4 days / week (2 credits, min 220 hours)

Summer: Paid Co-op for 2 credits and up to 400 hours

Year 2: Sept and October full day Mon - Fri (2 credits, min 220 hours)





# Program Overview

Habitat for Humanity established partnership





# St Joseph's Students on Habitat job site





# Free Industry Recognized Certifications



- WHMIS
- CPR and Automated External Defibrillator(AED)
- Working at Heights
- Health and Safety
- Standard First Aid
- Elevated Work Platform
- Leadership Skills



# SHSM Red Seal Diploma

This program will meet the requirements to graduate with an SHSM Red Seal diploma. The requirements include:

- A bundle of grade 11 and 12 credits
- Seven sector recognized certifications and/or training courses
- Experiential learning activities
- Reach Ahead experiences
- Co-op credits (minimum 2)





# What is apprenticeship



- A three-way partnership and agreement among:
  - an individual wanting to learn a skilled trade or occupation.
  - an employer who needs skilled employees.
  - the government who handles trade standards, regulations, examinations, certification, registration and monitors the on-the-job training.
- Apprenticeships generally last from two to five years.

## Apprenticeship in Ontario is divided into 4 sectors

### CONSTRUCTION

Architectural Glass and Metal Technician (Glazier) ♦  
Brick and Stone Mason (Bricklayer) ♦  
Cement (Concrete) Finisher  
Concrete Pump Operator  
Construction Boilermaker (Boilermaker) ♦  
Construction Craft Worker  
Construction Millwright ♦  
Drywall Finisher and Plasterer  
Drywall, Acoustic and Lathing Applicator (Lather - Interior Systems Mechanic) ♦  
Electrician - Construction and Maintenance ♦  
Electrician - Domestic and Rural ♦  
Exterior Insulated Finish Systems Mechanic  
Floor Covering Installer ♦  
General Carpenter (Carpenter) ♦  
Hazardous Materials Worker  
Heat and Frost Insulator  
Heavy Equipment Operator - Dozer  
Heavy Equipment Operator - Excavator  
Heavy Equipment Operator - Tractor Loader Backhoe  
Hoisting Engineer - Mobile Crane Operator 1 (Mobile Crane Operator) ♦  
Hoisting Engineer - Mobile Crane Operator 2 ♦

Hoisting Engineer - Tower Crane Operator (Tower Crane Operator) ♦  
Ironworker - Generalist ♦  
Ironworker - Structural and Ornamental ♦  
Native Residential Construction Worker  
Painter and Decorator - Commercial and Residential (Painter and Decorator) ♦  
Painter and Decorator - Industrial  
Plumber ♦  
Powerline Technician ♦  
Precast Concrete Erector  
Precast Concrete Finisher  
Refractory Mason  
Refrigeration and Air Conditioning Systems Mechanic (Refrigeration and Air Conditioning Mechanic) ♦  
Reinforcing Rodworker (Ironworker - Reinforcing) ♦  
Residential (Low Rise) Sheet Metal Installer ♦  
Residential Air Conditioning Systems Mechanic ♦  
Restoration Mason  
Roofer ♦  
Sheet Metal Worker ♦  
Sprinkler and Fire Protection Installer (Sprinkler System Installer) ♦  
Steamfitter (Steamfitter/Pipefitter) ♦  
Terrazzo, Tile and Marble Setter (Tilesetter) ♦

### INDUSTRIAL

Bearings Mechanic  
Blacksmith ♦  
Cabinetmaker ♦  
Composite Structures Technician  
Computer Numerical Control (CNC) Programmer  
Die Designer  
Draftsperson - Mechanical  
Draftsperson - Plastic Mould Design  
Draftsperson - Tool and Die Design  
Electric Motor System Technician ♦  
Electrical Control (Machine) Builder  
Electrician (Signal Maintenance)  
Elevating Devices Mechanic  
Entertainment Industry Power Technician  
Facilities Mechanic  
Facilities Technician  
Fitter - Assembler (Motor Assembly)  
General Machinist (Machinist) ♦  
Hydraulic/Pneumatic Mechanic  
Industrial Electrician ♦  
Industrial Mechanic Millwright ♦  
Instrumentation and Control Technician ♦  
Light Rail Overhead Contact Systems Linesperson  
Locksmith  
Machine Tool Builder and Integrator  
Metal Fabricator (Fitter) ♦  
Mould Designer

Mould Maker  
Mould or Die Finisher  
Optics Technician (Lens and Prism Maker)  
Packaging Machine Mechanic  
Pattern Maker  
Precision Metal Fabricator  
Pressure Systems Welder  
Process Operator - Food Manufacturing  
Process Operator - Power  
Process Operator - Refinery, Chemical and Liquid Processes  
Process Operator - Wood Products  
Pump Systems Installer  
Railway Car Technician  
Relay and Instrumentation Technician  
Roll Grinders/Turner  
Saw Filer/Fitter  
Ski Lift Mechanic  
Surface Blaster  
Surface Mount Assembler  
Thin Film Technician  
Tool and Cutter Grinder  
Tool and Die Maker ♦  
Tool and Gauge Inspector  
Tool/Tooling Maker  
Tractor-Trailer Commercial Driver  
Water Well Driller  
Welder ♦

### SERVICE

Aboriginal Child Development Practitioner  
Agricultural - Dairy Herdsman  
Agricultural - Fruit Grower  
Agricultural - Swine Herdsman  
Appliance Service Technician ♦  
Arborist  
Assistant Cook  
Baker  
Baker - Pastry (Baker) ♦  
Chef  
Child and Youth Worker  
Child Development Practitioner  
Cook ♦  
Developmental Services Worker  
Educational Assistant  
Electronic Service Technician  
Gemsetter/Goldsmith  
Hairstylist ♦  
Hardware, Lumber and Building Materials Retailer  
Horse Groom  
Horse Harness Maker  
Horticultural Technician (Landscape Horticulturalist) ♦

Information Technology - Contact Centre Customer Service Agent  
Information Technology - Contact Centre Sales Agent  
Information Technology - Contact Centre Technical Support Agent  
Information Technology - Hardware Technician  
Information Technology - Network Technician  
Institutional Cook  
Micro Electronics Manufacturer  
Native Clothing and Crafts Artisan  
Network Cabling Specialist  
Parts Technician (Partsperson) ♦  
Pool, Hot Tub and Spa - Installer  
Pool, Hot Tub and Spa - Service Technician  
Retail Meat Cutter  
Saddlery  
Special Events Coordinator  
Utility Arborist  
Wooden Boat Rebuilder

### MOTIVE POWER

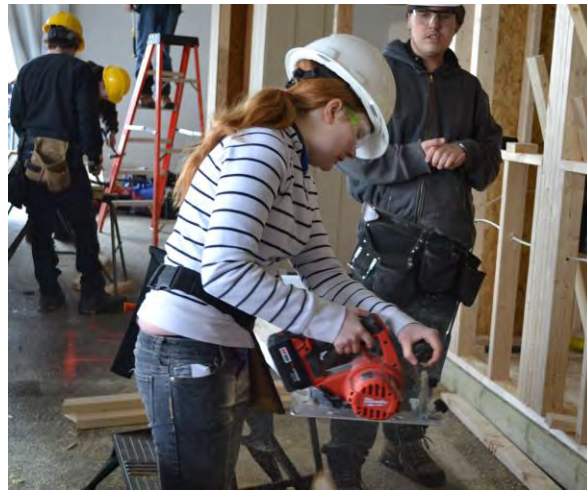
Agricultural Equipment Technician ♦  
Alignment and Brakes Technician ♦  
Auto Body and Collision Damage Repairer (Motor Vehicle Body Repairer - Metal and Paint) ♦  
Auto Body Repairer ♦  
Automotive Electronic Accessory Technician ♦  
Automotive Glass Technician  
Automotive Painter ♦  
Automotive Service Technician ♦  
Fuel and Electrical Systems Technician ♦  
Heavy Duty Equipment Technician ♦  
Marine Engine Technician

Motive Power Machinist  
Motorcycle Technician (Motorcycle Mechanic) ♦  
Powered Lift Truck Technician  
Recreation Vehicle Technician (Recreation Vehicle Service Technician) ♦  
Small Engine Technician  
Tire, Wheel and Rim Mechanic  
Transmission Technician ♦  
Truck and Coach Technician (Truck and Transport Mechanic) ♦  
Truck-Trailer Service Technician (Transport Trailer Technician) ♦  
Turf Equipment Technician

### HOW TO ENTER THE SKILLED TRADES

Apprenticeship is a work-based training program that provides access to well-paying jobs that demand a high level of skill, judgement and creativity. Apprentices are paid while they gain work experience, and their wages increase with their skill level. An apprenticeship is a form of post-secondary education. For more information on the trade that interests you visit [examiningalevel.com.ca](http://examiningalevel.com.ca)

If you have experience and training in a trade from another province, territory or country, the College's Trade Equivalency Assessment (TEA) can assess your qualifications and experience against all of the training requirements of an Ontario apprenticeship. For more information on the TEA process visit [collegeoftrades.ca/trade-assessment](http://collegeoftrades.ca/trade-assessment)



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TRADES"]
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**156**  
REGULATED  
TRADES IN  
ONTARIO

**22**  
COMPULSORY  
TRADES

**134**  
VOLUNTARY  
TRADES

## 22 Compulsory Trades

### OYAP Exemptions

OYAP ***participants***, including OYAP apprentices (i.e. participants with registered training agreements), are exempt from the following requirements under OCTAA:

- Minimum age (Ontario Regulation 421/12, General, Section 1)
- Practise of compulsory trade (Ontario Regulation 421/12, General, Section 2)
- Wage rates and ratios (Ontario Regulation 421/12, General, Section 3, subsection 1)



Alignment and Brakes Technician	Hoisting Engineer – Tower Crane Operator
Auto Body and Collision Damage Repairer	Motorcycle Technician
Auto Body Repair	Plumber
Automotive Electronic Accessory Technician	Refrigeration & Air Conditioning Systems Mechanic
Automotive Service Technician	Residential (Low Rise) Sheet Metal Installer
Electrician – Construction and Maintenance	Residential Air Conditioning Systems Mechanic
Electrician – Domestic and Rural	Sheet Metal Worker
Fuel and Electrical Systems Technician	Steamfitter
Hairstylist	Transmission Technician
Hoisting Engineer – Mobile Crane Operator 1	Truck and Coach Technician
Hoisting Engineer – Mobile Crane Operator 2	Truck-Trailer Service Technician

# What is apprenticeship

- Apprenticeship is a way of learning a skilled trade from a professional tradesperson, also called a journeyperson
- 80 to 90 per cent of training occurs **on-the-job**, where the apprentice learns by watching, practicing and performing tasks
- 10 to 20 percent is theoretical, **in-school** training, delivered by an approved agent

# What is apprenticeship

An apprenticeship training program consists of on-the-job and in-school training.

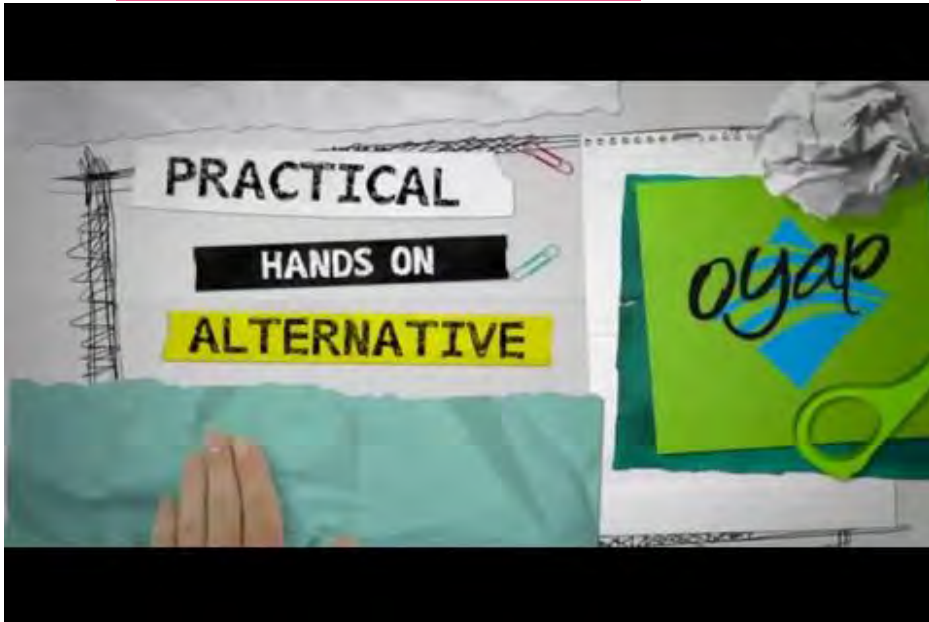
## ON-THE-JOB TRAINING

An apprenticeship involves practical training provided on-the-job by a skilled worker, or trainer. The skills or competencies to be developed are set out by the trade's **Apprenticeship Training Standard** and are recognized by the industry as being essential to the practice of the trade.

As these essential skills are developed, the apprentice's sponsor or trainer signs the relevant sections of the training standard to indicate that the apprentice has met the individual training objectives by demonstrating the skills required of a skilled worker, or journeyperson, in the trade.

# Apprenticeship Opportunities

## OYAP Video



## Jason Video





# Brick and Stone Mason 401A trade

A **Brick and Stone Mason** builds and repairs walls, floors, arches, pavings, partitions, fireplaces, chimneys, smokestacks and other structures. A Brick and Stone Mason often works on industrial, commercial, institutional and residential buildings, many times in high-temperature environments. Specifically, a Brick and Stone Mason:

- erects, installs, maintains, repairs and alters walls, floors, arches, pavings, partitions, fireplaces, chimneys, smokestacks and other structures
- works with materials such as brick, natural stone, manufactured stone, tiles, precast masonry panels, glass blocks, concrete blocks, light-weight insulated panels, other masonry units, insulation and membranes



# Masonry lab at F. J. Brennan

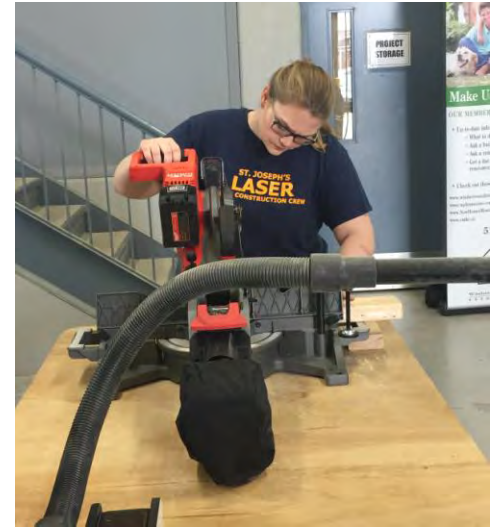


# General Carpenter 403A trade

A General Carpenter constructs, renovates and repairs structures made of wood, steel, concrete and other materials in the residential, commercial and industrial construction sectors and in related industries.

Specifically, a General Carpenter:

- establishes building procedures and prepares work sites
- lays out, constructs and installs formwork and concrete foundations
- frames floors, walls, ceilings and roofs
- finishes interiors and exteriors
- constructs heavy framing
- builds stairs, posts and handrails
- lays out, constructs and installs door and window systems
- performs renovations



# What is apprenticeship: General Carpenter

An apprenticeship training program consists of on-the-job and in-school training.

## IN-SCHOOL TRAINING

A **General Carpenter** apprenticeship includes three levels of theoretical training, which includes but is not limited to instruction in:

- safety, materials and tools
- plans, specifications and building codes
- estimating, calculations and layout
- metal cutting and welding
- residential, institutional, commercial and industrial construction
- excavation, shoring and re-shoring
- footings, foundations and drainage systems
- formwork and concrete structures
- wall and ceiling framing and floor systems
- roofs and trusses
- exterior and interior finishing





# What is apprenticeship: Brick and Stone Mason

An apprenticeship training program consists of on-the-job and in-school training.

## IN-SCHOOL TRAINING

A **Brick and Stone Mason** apprenticeship includes three levels of theoretical training, which includes but is not limited to instruction in:

- health and safety
- use of tools and equipment
- worksite preparation
- wall systems
- job layout
- grout and mortar
- structural masonry
- non-structural masonry
- water proofing below grade
- fire place and chimneys
- restoration



# Accelerated OYAP

## General Carpenter Trade

7200 hours (approx 4 years)

- 6480 hours on-the-job work experience
- 720 hours of in-school training

Academy can provide:

- 240 hours of in-school training
- Up to 1000 hours on-the-job work experience

## Brick and Stone Mason trade

5600 hours (approx 3 years)

- 4880 hours on-the-job work experience
- 720 hours of in-school training

Academy can provide:

- 240 hours on in-school training
- Up to 1000 hours on-the-job work experience

# Benefits

- **career in the construction industry provides: good income, technology, career advancement, variety, opportunities and challenge, the chance to create something that lasts and is useful, the chance to work on a team – then choose a career in the construction industry**
- **Start your apprenticeship early; save \$500 in tuition costs and expedite becoming a certified journeyperson in the trade**
- **Free industry recognized certifications**



# Benefits

- Enhance knowledge and skills learned in school
- Develop transferable and trade-specific skills to improve qualifications for future employment
- Earn secondary school credits while gaining practical experience
- Obtain employment references
- May gain part-time, full-time or apprenticeship employment





# Who should apply?



Grade 10 students interested in pursuing a career pathway in the construction industry with particular interest in apprenticeship and employment opportunities. Student wishing to pursue SHSM certification in Construction should also apply.

## Eligibility

**You must have 14 credits before 1st semester of Grade 11**

**You must be 16 years of age before April 1, 2018**

**You must have a Social Insurance Number**



## CONSTRUCTION ACADEMY - Application for 2017-18

The following information is collected under the legal authority of the Education Act, R.S.O. 1980, and the Cooperative Education and Other Forms of Experiential Learning, 2000. This information may be accessed by teachers, principals and appropriate support staff to ensure that the student's background and goals are appropriate to the Experiential Learning program chosen. This form will be retained in the student's file for a minimum of twelve months after completion of the course.

### Student Section:

- You must have 14 credits before 1<sup>st</sup> semester of Grade 11
- You must be 16 years of age before April 1, 2018
- You must have a Social Insurance Number

LEGAL LAST NAME: \_\_\_\_\_ FIRST NAME: \_\_\_\_\_

PREFERRED NAME: \_\_\_\_\_ STUDENT #: \_\_\_\_\_

GENDER: M F DATE OF BIRTH (dd/mm/year) \_\_\_\_\_ CURRENT GRADE: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ POSTAL CODE: \_\_\_\_\_

HOME PHONE: \_\_\_\_\_ MOBILE PHONE: \_\_\_\_\_

EMAIL: \_\_\_\_\_ @mytools2go.ca CURRENT SCHOOL: \_\_\_\_\_

The Construction Academy will provide work placement opportunities in a number of trades that may include but not limited to: Brick and Stone Mason, Cement Mason, Construction Craft Worker, Drywall, Finisher and Plasterer, Electrician, Floor Covering Installer, General Carpenter, Ironworker, Painter, Plumber, Refrigeration/Air Conditioning Mechanic, Sheet Metal Worker and Terrazzo, Tile and Marble Setter. Level 1 Apprenticeship In-School curriculum will be offered in two streams only: Brick and Stone Mason and General Carpentry.

Please provide your preferred focus: \_\_\_\_ Brick and Stone Mason \_\_\_\_ General Carpentry \_\_\_\_ No Preference

If accepted into the program, transportation to and from the work placement is your responsibility.

What will be your means of transportation? \_\_\_\_\_

Student Signature: \_\_\_\_\_ Date: \_\_\_\_\_

+++++

### Parent/Guardian Section:

I understand that my son/daughter is responsible for his/her own transportation to and from the work placement and that the completion of this application does not mean acceptance into the program but will be used to determine the most suitable candidates.

Name (please print): \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Please submit completed application package to your Guidance Counselor or

email it to [susan\\_friedl@wecdsb.on.ca](mailto:susan_friedl@wecdsb.on.ca)

### QUALITIES OF RECOMMENDATION for CONSTRUCTION ACADEMY Candidates

To be completed by Technological Education, Science or Math Teacher

Click the appropriate level. ●

Please attach and submit with your Construction Academy application

Student Name: \_\_\_\_\_ Date: \_\_\_\_\_

Teacher: \_\_\_\_\_ Course: \_\_\_\_\_

School: \_\_\_\_\_ Mark: \_\_\_\_\_

The above student has indicated an interest in enrolling in the Construction Academy. The purpose of this referral is to ensure that the student's background and goals are supportive of one another. The referral must also be in the student's best interest and will assist in determining the suitability of the applicant. Thank you.

A work placement offers opportunities and challenges different from the classroom. Maturity, attitude and commitment are important ingredients to success. Please rate the applicant on the following criterion, on a scale of:  
1 = poor / low 5 = excellent / high

CRITERION	1	2	3	4	5
Punctuality	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Attendance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Able to focus attention on task at hand	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Team player (demonstrated ability to collaborate with others)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability to follow instructions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Desire to learn	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrated problem solving ability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Projected dedication / commitment to program	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrated initiative; self-starter	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demonstrated mechanical aptitude	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding of spatial relations (views of objects)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Motivation/desire to achieve excellence	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Oral and written communication skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Graphic communication skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Level of maturity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Resourcefulness: seek out sources of needed information	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Attention to detail	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dexterity with hand tools	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Teacher Signature: \_\_\_\_\_ Date: \_\_\_\_\_

# Applications being accepted now

Download application and referral form from: [www.WEConstructionAcademy.ca](http://www.WEConstructionAcademy.ca)

## **Complete application electronically**

Print then sign; If under 18, parent/guardian must sign too.

Provide **Qualities of Recommendation** checklist to Math, Science or Tech teacher (from Sem 1 preferably). Attached completed checklist with your application.

Submit completed application package by **May 12** to your Guidance Counsellor or email it to:

[susan\\_friedl@wecdsb.on.ca](mailto:susan_friedl@wecdsb.on.ca)

Interviews will be held latter half May.