



# **PATHWAYS TO A CAREER IN CIVIL CONSTRUCTION**





# LIST OF OCCUPATIONS

## CONSTRUCTION

Asphalt Crew Member  
CAD Highway Drafter  
Concrete Finisher  
Construction Craft Worker  
Demolition Worker  
Driller/Blaster  
Form Builder  
Geomatic Plan Assistant  
GIS Assistant  
Grading Assistant  
Highway Maintenance Worker  
Landscape  
Pavement Line Marker  
Pipe Layer Assistant  
Quarry Worker  
Truck Driver

## CONSTRUCTION EQUIPMENT

Crane Operator  
Earth Moving Operator  
Heavy Duty Equipment  
Mechanic

## ENGINEERING

Civil Engineer  
Civil Engineering Technologist  
Civil Engineering Technician  
Drafter  
Estimator

## ENVIRONMENTAL

Environmental Engineer  
Environmental Engineering  
Technologist  
Environmental Engineering  
Technician

## HEALTH & SAFETY

Health and Safety  
Representative

## PROCUREMENT

Purchasing Agent  
Dispatcher  
Scalehouse/Dispatcher  
Technical Sales Representative

## QUALITY CONTROL

Field Material Testing  
Technician  
Laboratory Material Testing  
Technician  
Quality Control Officer

## SURVEYING

Surveyor

## UTILITIES

Apprentice Electrician  
Gas Line Installer  
Utility Line Locator



# LEGEND

## **OYAP-ONTARIO YOUTH APPRENTICESHIP PROGRAM**

The Ontario Youth Apprenticeship Program (OYAP) is a School to Work program that allows students to explore and work in apprenticeship occupations starting in Grade 11 or Grade 12 through the Cooperative Education program. Students have an opportunity to become registered apprentices and work towards becoming certified journeypersons in a skilled trade while completing their secondary school diplomas.

## **EXPERIENTIAL LEARNING**

Experiential learning refers to hands-on experience you obtain by applying knowledge in a real-world setting. A student may have the chance to experience a particular job, employment sector, or community organization to see if it is a good fit with their skills and interests.



# LEGEND

## **WORK EXPERIENCE**

Students earn a total of 6 out-of-school workplace Cooperative Education credits. After graduation, students go directly to work full time and to college at night or as day release to complete the theoretical component of their training. It is extremely important that course selections are guided during the Grade 9 and Grade 10 option periods.

## **COOPERATIVE EDUCATION**

Cooperative education is a credit course during which students learn through workplace and classroom experiences. In co-op, students use what they have learned in a school subject by applying it in the workplace Co-op students develop work habits, attitudes and job skills necessary for a successful transition from secondary school to post-secondary education or the workplace.

## **EXPANDED CO-OP CREDITS**

The expansion of co-op means that students can now apply two co-op credits towards their 18 compulsory high school graduation requirements, with no limit on earning optional co-op credits. Further, co-op allows students to explore and “test drive” career options, experience “hands-on” learning and see the relevance of their classroom learning. It can help to develop the essential skills and habits required in the workplace along with gaining valuable work experience to help build a resumé for postsecondary programs and future employment.

**CONSTRUCTION**



# ASPHALT CREW MEMBER



Ontario Secondary School Diploma (OSSD)  
Recommended TDJ3M or TDJ4M  
OYAP



Essential Skills:  
Decision Making  
Numeracy

## PATH 01

College Pre-Apprenticeship Programs

Labour Union Hall Construction Craft Worker Apprenticeship of 2400 Hrs.

Employment:  
General Contractor

## PATH 02

Labour Union Hall Construction Worker Apprenticeship of 2400 Hrs.

Employment:  
General Contractor

## PATH 03

Non-Union

Employment:  
General Contractor



**You Could Become:**  
Lead Hand  
Foreman  
Site Superintendent  
Estimator



# CAD HIGHWAY DRAFTER



Ontario Secondary School Diploma (OSSD)  
Recommended:  
TDJ3M or TDJ4M



Essential Skills:  
Decision Making  
Document Use



Preferred Standard:  
OACETT

## PATH 01

College  
Civil Engineering Technician  
ENG4C  
MCT4C or MCF3M  
Recommended  
SPH3C

Employment:  
Consultant  
Municipalities  
Ministry of Transportation

## PATH 02

College  
Civil Engineering Technologist  
ENG4C  
MCT4C or MCF3M or MCV4U  
Recommended  
SPH3C

Employment:  
Consultant  
Municipalities  
Ministry of Transportation



You Could Become:  
Manager of Drafting  
Project Manager



# CONCRETE FINISHER



Ontario Secondary School Diploma (OSSD)



Essential Skills:  
Decision Making  
Numeracy

## PATH 01

College Pre-Apprenticeship Programs

Labour Union Hall Concrete Finisher Apprenticeship of 4500 Hrs.

Employment:  
General Contractor

## PATH 02

Labour Union Hall Concrete Finisher Apprenticeship of 4500 Hrs.

Employment:  
General Contractor

## PATH 03

Non-Union

Employment:  
General Contractor



**You Could Become:**  
Lead Hand  
Foreman  
Site Superintendent  
Estimator





# CONSTRUCTION CRAFT WORKER



Ontario Secondary School Diploma (OSSD)



Essential Skills:  
Decision Making  
Numeracy

## PATH 01

College Pre-Apprenticeship Programs

Labour Union Hall Construction Craft Worker Apprenticeship of 2400 hrs.

Employment:  
General Contractor

## PATH 02

Labour Union Hall Construction Worker Apprenticeship of 2400 hrs.

Employment:  
General Contractor

## PATH 03

Non-Union

Employment:  
General Contractor



**You Could Become:**  
Lead Hand  
Foreman  
Site Superintendent  
Estimator



# DEMOLITION WORKER



Ontario Secondary School Diploma (OSSD)  
Recommended TDJ3M or TDJ4M  
OYAP



Essential Skills:  
Decision Making  
Numeracy

## PATH 01

College Pre-Apprenticeship Programs

Labour Union Hall Construction Craft Worker Apprenticeship of 2400 hrs.

Employment:  
General Contractor

## PATH 02

Labour Union Hall Construction Worker Apprenticeship of 2400 Hrs.

Employment:  
General Contractor

## PATH 03

Non-Union

Employment:  
General Contractor



**You Could Become:**  
Lead Hand  
Foreman  
Site Superintendent  
Estimator



# DRILLER BLASTER



Ontario Secondary School Diploma (OSSD)  
Recommended TDJ3M or TDJ4M



Essential Skills:  
Decision Making  
Numeracy  
Oral Communication

## PATH 01

Blasting Techniques  
Ontario Secondary School Diploma (OSSD)

Employment:  
Blasting Contractors  
Quarries

## PATH 02

College  
Resource Drilling Blasting  
ENG4C  
MCT4C  
MOF3M

Employment:  
Blasting Contractors  
Quarries



**You Could Become:**  
Lead Hand  
Foreman  
Site Superintendent  
Estimator



# FORM BUILDER



Ontario Secondary School Diploma (OSSD)  
Recommended TDJ3M or TDJ4M  
OYAP



Essential Skills:  
Decision Making  
Document Use  
Numeracy



Required:  
Q of C

## PATH 01

College Pre-Apprenticeship Programs

Carpenter's Union Hall Carpenter Apprenticeship of 3844 to 7200 Hrs.

Employment: General Contractor

## PATH 02

Carpenter's Union Hall Carpenter Apprenticeship of 3844 to 7200 Hrs.

Employment: General Contractor

## PATH 03

Non-Union

Apply to a General Contractor for an Apprenticeship

Employment: General Contractor



**You Could Become:**  
Lead Hand  
Foreman  
Site Superintendent  
Estimator



# GEOMATIC PLAN ASSISTANT



Ontario Secondary School Diploma (OSSD)  
Recommended  
TDJ3M or TDJ4M



Essential Skills:  
Decision Making  
Numeracy  
Document Use

## PATH 01

College  
Geomatic Technician  
ENG4C  
MTC4C  
MCF3M

Employment:  
Consultants

## PATH 02

College Civil Engineering  
Technologist  
ENG4C MCT4C  
Recommended  
MCV4U  
TDJ3M or TDJ4M

Employment:  
Consultants



**You Could Become:**  
Geomatic Specialist  
Drafter  
Project Manager



# GIS ASSISTANT



Ontario Secondary School Diploma (OSSD)  
Recommended TDJ3M or TDJ4M



Essential Skills:  
Decision Making  
Numeracy  
Oral Communication

## PATH 01

Geomatic Technician College  
2 ENG 11 or 12  
2 MATH 11 or 12

Employment:  
General Contractor  
Consultant  
City/Municipalities

## PATH 02

GIS Application Specialist  
Work Experience  
College Diploma in Related Field

Employment:  
General Contractor  
Consultant  
City/Municipalities

 **You Could Become:**  
GIS Specialist  
Drafter  
Project Manager



# GRADING ASSISTANT



Ontario Secondary School Diploma (OSSD)  
Recommended TDJ3M or TDJ4M  
OYAP



Essential Skills:  
Decision Making  
Numeracy  
Oral Communication

## PATH 01

College Pre-Apprenticeship Programs

Labour Union Hall Construction Craft Worker Apprenticeship of 2400 hrs.

Employment: General Contractor

## PATH 02

Labour Union Hall Construction Worker Apprenticeship of 2400 Hrs.

Employment: General Contractor

## PATH 03

Non-Union

Employment: Contractors  
Geotechnical Engineers



**You Could Become:**  
Lead Hand  
Foreman  
Site Superintendent  
Estimator



# HIGHWAY MAINTENANCE WORKER



Ontario Secondary School Diploma (OSSD)  
Recommended TDJ3M or TDJ4M  
OYAP



Essential Skills:  
Decision Making  
Numeracy

## PATH 01

College Pre-Apprenticeship Programs

Labour Union Hall Construction Craft Worker Apprenticeship of 2400 Hrs.

Employment:  
General Contractor

## PATH 02


Labour Union Hall Construction Worker Apprenticeship of 2400 Hrs.

Employment:  
General Contractor

## PATH 03

Non-Union

Employment:  
General Contractor



**You Could Become:**  
Lead Hand  
Foreman  
Site Superintendent  
Estimator





# LANDSCAPER



Ontario Secondary School Diploma (OSSD)  
Recommended  
SHSM Green Industries  
TDJ3M or TDJ4M



Essential Skills:  
Oral Communication  
Critical Thinking

## PATH 01

College Horticulture Technician  
ENG4C  
MAT4C  
Recommended  
Environmental Science

Employment:  
Landscape Contractor  
Nursery  
Greenhouse

## PATH 02

College Landscape Technician  
ENG4C  
MCT4C, MAP4C, MDM4U

Employment:  
Landscape Contractor  
Nursery  
Greenhouse

## PATH 03

Horticulture Technician  
Apprenticeship  
5400 hrs.

Employment:  
Landscape Contractor  
Nursery  
Greenhouse



**You Could Become:**  
Lead Hand  
Foreman  
Site Superintendent  
Estimator



# PAVEMENT LINE MARKER



Ontario Secondary School Diploma (OSSD)  
Recommended TDJ3M or TDJ4M  
OYAP



Essential Skills:  
Decision Making  
Numeracy

## PATH 01

College Pre-Apprenticeship Programs

Labour Union Hall Construction Craft Worker Apprenticeship of 2400 Hrs.

Employment:  
General Contractor

## PATH 02

Labour Union Hall Construction Worker Apprenticeship of 2400 Hrs.

Employment:  
General Contractor

## PATH 03

Non-Union

Employment:  
General Contractor



**You Could Become:**  
Lead Hand  
Foreman  
Site Superintendent  
Estimator



# PIPE LAYER ASSISTANT



Ontario Secondary School Diploma (OSSD) Recommended OYAP



Essential Skills: Decision Making Numeracy

## PATH 01

College Pre-Apprenticeship Programs

Labour Union Hall Construction Craft Worker Apprenticeship of 2400 hrs.

Employment: General Contractor

## PATH 02

Labour Union Hall Construction Worker Apprenticeship of 2400 hrs.

Employment: General Contractor

## PATH 03

Non-Union

Employment: Contractors Geotechnical Engineers



You Could Become: Lead Hand Foreman Site Superintendent Estimator



# QUARRY WORKER



Ontario Secondary School Diploma (OSSD) Recommended OYAP



Essential Skills: Decision Making Numeracy

## PATH 01

College Pre-Apprenticeship Programs

Labour Union Hall Construction Craft Worker Apprenticeship of 2400 Hrs.

Employment: General Contractor

## PATH 02


Labour Union Hall Construction Worker Apprenticeship of 2400 Hrs.

Employment: General Contractor

## PATH 03

Non-Union

Employment: Contractors Geotechnical Engineers



**You Could Become:**  
Lead Hand  
Foreman  
Site Superintendent  
Estimator



# TRUCK DRIVER



Ontario Secondary School Diploma (OSSD)  
Senior Transportation Courses Recommended



Essential Skills:  
Decision Making  
Numeracy  
Oral Communication



Required:  
Driver's Licence  
Abstract

## PATH 01

Truck Driving Training School  
G License  
DZ License

Employment:  
General Contractor



**You Could Become:**  
Concrete Mixing Truck Driver  
Dump Truck Driver  
Tank Truck Driver  
Water Truck Driver

# **CONSTRUCTION EQUIPMENT**



# CRANE OPERATOR



Ontario Secondary School Diploma (OSSD)



Essential Skills:  
Decision Making  
Numeracy  
Problem Solving  
Oral Communication



Required:  
Red Seal Q of C

## PATH 01

Mobile Crane Pre-Apprenticeship

Mobile Crane Operator Branch One  
6000 hrs. plus 480 in school  
Drivers license

Employment:  
Contractor  
Manufacturers

## PATH 02

Operating Engineers Institute of Ontario

Tower Crane Operator  
3000 hrs.

Employment:  
Contractor  
Manufacturers

## PATH 03


Mobile Crane Operator Branch two  
1000 hrs. plus 240 in school

Employment:  
Contractor  
Manufacturers

## PATH 04

Non-Union

Employment:  
Contractor  
Manufacturers



**You Could Become:**  
Lead Hand  
Foreman  
Site Superintendent  
Estimator



# EARTH MOVING OPERATOR



Ontario Secondary School Diploma (OSSD)



Essential Skills:  
Decision Making  
Numeracy  
Problem Solving  
Oral Communication



Required:  
Driver's Licence  
Abstract

## PATH 01

Non-Union

Apply to Contractors as a general labourer. After years of experience you can be trained on equipment

Employment: Contractor

## PATH 02

Private Training Institute

Employment: Contractor

## PATH 03


College  
Heavy Equipment Training  
ENG4C  
MTC3C or MCF3C or MBF3C

Apply to Contractor as a general Labourer

Employment: Contractor

## PATH 04

Operating Engineers Union  
ENG4C  
MTC3C or MCF3C or MBF3C  
2000 to 2500 hr.



**You Could Become:**  
Lead Hand  
Foreman  
Site Superintendent  
Estimator





# HEAVY DUTY EQUIPMENT MECHANIC



Ontario Secondary School Diploma (OSSD)  
Recommended TDJ3M or TDJ4M  
MCT4C and SPH3C  
OYAP



Essential Skills:  
Decision Making  
Numeracy  
Problem Solving  
Oral Communication



Required:  
Q of C

## PATH 01

College  
Motive Power Technician -  
Heavy Duty Equipment  
Mechanic  
MTC4C  
ENG4C

Apply to Contractor/Manufacturer  
for an Apprenticeship of  
7000 hrs.

Employment:  
General Contractor  
Dealership  
Manufacturer

## PATH 02

Union Hall  
Power Worker's  
Apprenticeship of 8000 hrs.

Employment:  
General Contractor  
Dealership  
Manufacturer

## PATH 03

Non-Union  
Motive Power Technician -  
Heavy Duty Equipment  
Mechanic  
MTC4C  
ENG4C

Apply to Employer  
Apply to College

Employment:  
General Contractor  
Dealership  
Manufacturer



You Could Become:  
Shop Manager  
Technical Sales Rep

**ENGINEERING**



# CIVIL ENGINEER



Ontario Secondary School Diploma (OSSD)  
Recommended TDJ3M or TDJ4M



Essential Skills:  
Document Use  
Decision Making  
Numeracy  
Oral Communication



Preferred Standard:  
CSCE  
PEO

## PATH 01

University  
MHF4U  
MCV4U  
SCH4U  
SPH4U  
ENG4U

Employment:  
Consultants  
Municipalities  
Contractors  
Manufacturers



You Could Become:  
Designer  
Project Manager  
Technical Sales Rep



# CIVIL ENGINEERING TECHNOLOGIST



Ontario Secondary School Diploma (OSSD)  
Recommended  
TDJ3M or TDJ4M



Essential Skills:  
Document Use  
Decision Making  
Numeracy



Preferred Standard:  
OACETT

## PATH 01

College  
ENG4C  
MCT4C or MHF4U or MCV4U  
Recommended  
SPH3C

Employment:  
Consultants  
Municipalities  
Contractors  
Suppliers

 **You Could Become:**  
Quality Control Technician  
Laboratory Testing Technician  
Technical Sales Rep  
Drafter  
Project Manager  
Estimator  
Site Superintendent



# CIVIL ENGINEERING TECHNICIAN



Ontario Secondary School Diploma (OSSD)  
Recommended TDJ3M or TDJ4M



Essential Skills:  
Document Use  
Decision Making  
Numeracy  
Oral Communication



Preferred Standard:  
OACETT

## PATH 01

College  
ENG4C  
MCT4C or MCF3M  
Recommended  
SPH3C

Employment:  
Consultants  
Municipalities  
Contractors

 **You Could Become:**  
Quality Control Technician  
Laboratory Testing Technician  
Technical Sales Rep  
Drafter  
Project Manager  
Estimator  
Site Superintendent



# DRAFTER



Ontario Secondary School Diploma (OSSD)  
Recommended  
TDJ3M or TDJ4M



Essential Skills:  
Document Use  
Decision Making  
Computer Skills



Preferred Standard:  
OACETT

## PATH 01

College  
Civil Engineering Technician  
ENG4C  
MCT4C or MCF3M  
Recommended  
SPH3C

Employment:  
Consultant  
Municipalities

## PATH 02

College  
Civil Engineering Technologist  
ENG4C  
MCT4C or MHF4U or MCV4U  
Recommended  
SPH3C

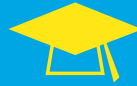
Employment:  
Consultant  
Municipalities



You Could Become:  
Manager of Drafting  
Project Manager



# ESTIMATOR



Ontario Secondary School Diploma (OSSD)  
Recommended TDJ3M or TDJ4M



Essential Skills:  
Document Use  
Decision Making  
Numeracy  
Oral Communication

Reading Text  
Written Communication

## PATH 01

Civil Engineering Technologist  
College  
ENG4C  
MCT4C or MHF4U or MCV4U  
Recommended  
SPH3C

Employment:  
Contractors  
Manufacturer

## PATH 02

Civil Engineering Technician  
College  
ENG4C  
MCT4C

Employment:  
Contractors  
Manufacturer

## PATH 03

General labourer  
Apply as an Estimator after  
several years of experience

Employment:  
Contractors  
Manufacturer



You Could Become:  
Senior Estimator  
Manager

**ENVIRONMENTAL**





# ENVIRONMENTAL ENGINEER



Ontario Secondary School Diploma (OSSD)  
Recommended TDJ3M or TDJ4M



Essential Skills:  
Document Use  
Decision Making  
Numeracy  
Oral Communication



Preferred Standard:  
PEO

## PATH 01

University  
MHF4U  
MCV4U  
SCH4U  
SPH4U  
ENG4U

Employment:  
Consultants  
Municipalities  
Contractors  
Manufacturers



You Could Become:  
Designer  
Project Manager  
Technical Sales Rep



# ENVIRONMENTAL ENGINEERING TECHNOLOGIST



Ontario Secondary School Diploma (OSSD)  
Recommended  
TDJ3M or TDJ4M



Essential Skills:  
Document Use  
Decision Making  
Numeracy  
Oral Communication



Preferred Standard:  
OACETT

## PATH 01

College  
ENG4C  
MCT4C or MCF3M  
Recommended  
SPH3C

Employment:  
Consultants  
Municipalities  
Contractors  
Suppliers

 **You Could Become:**  
Quality Control Technician  
Laboratory Testing Technician  
Technical Sales Rep  
Drafter  
Project Manager  
Estimator  
Site Superintendent



# ENVIRONMENTAL ENGINEERING TECHNICIAN



Ontario Secondary School Diploma (OSSD)  
Recommended  
TDJ3M or TDJ4M



Essential Skills:  
Document Use  
Decision Making  
Numeracy  
Oral Communication



Preferred Standard:  
OACETT

## PATH 01

College  
ENG4C  
MCT4C or MCF3M  
Recommended  
SPH3C

Employment:  
Consultants  
Municipalities  
Contractors  
Suppliers



**You Could Become:**  
Quality Control Technician  
Laboratory Testing Technician  
Technical Sales Rep  
Drafter  
Project Manager  
Estimator  
Site Superintendent

# **HEALTH & SAFETY**



# HEALTH & SAFETY REPRESENTATIVE



Ontario Secondary School Diploma (OSSD)



Essential Skills:  
Critical Thinking  
Document Use  
Oral Communication

## PATH 01

University  
Occupational Health and Safety  
Completion of 6 C or U  
level courses  
ENG4U

Employment:  
Contractors  
Municipalities  
Suppliers

## PATH 02

College  
Ontario Secondary School  
Diploma (OSSD)  
ENG4C  
Recommended  
MTC3C

Employment:  
Contractors  
Municipalities  
Suppliers

 **You Could Become:**  
Health & Safety Manager

# **PROCUREMENT**



# PURCHASING AGENT



Ontario Secondary School Diploma (OSSD)



Essential Skills:  
Decision Making  
Numeracy  
Oral Communication  
Written Skills

## PATH 01

University  
Bachelor Degree in Business Administration  
ENG4U  
MDM4U  
MCF3M

Employment:  
Contractors  
Municipalities  
Manufacturers

## PATH 02

College  
Business Administration  
ENG4C  
MTC4C, MDM4U, MCB4U

Employment:  
Contractors  
Municipalities  
Manufacturers



You Could Become:  
Manager of Purchasing



# DISPATCHER



Ontario Secondary School Diploma (OSSD) Recommended



Essential Skills:  
Decision Making  
Numeracy  
Oral Communication  
Written Skills

## PATH 01

Experiential Learning

Employment:  
Quarries  
Suppliers  
Manufacturers

 You Could Become:  
Drafting  
Technical Sales Rep





# SCALEHOUSE/DISPATCHER



Ontario Secondary School Diploma (OSSD) Recommended



Essential Skills:  
Decision Making  
Numeracy  
Oral Communication  
Written Skills

## PATH 01

Experiential Learning

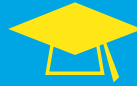
Employment:  
Quarries  
Contractors  
Manufacturers



You Could Become:  
Operator



# TECHNICAL SALES REPRESENTATIVE



High School Diploma  
Recommended  
TDJ3M or TDJ4M



Essential Skills:  
Decision Making  
Numeracy  
Oral Communication

## PATH 01

Civil Engineering Technologist  
College  
ENG4 (C or U) English  
MCT4 (C or U) or MHF4U  
or MCV4U  
SPH4U Physics

Employment:  
Suppliers  
Manufacturers

## PATH 02

Civil Engineering Technician  
College  
ENG4 (C or U)  
MCT4 (C or U) or MAPAC > 80%  
Recommended  
TDJ4M Design Technology

Employment:  
Suppliers  
Manufacturers

## PATH 03

General labourer

Apply after several years  
of experience:  
Suppliers  
Manufacturers



You Could Become:  
Sales Manager

**QUALITY CONTROL**



# FIELD MATERIAL TESTING TECHNICIAN



Ontario Secondary School Diploma (OSSD) Recommended TDJ3M or TDJ4M



Essential Skills: Decision Making Numeracy Oral Communication

## PATH 01

Civil Engineering Technologist  
College  
ENG4C  
MCT4C or MHF4U or MCV4U  
SPH3C

Employment:  
Contractors  
Geotechnical Engineers

## PATH 02

Civil Engineering Technician  
College  
ENG4C  
MCT4C

Employment:  
Contractors  
Geotechnical Engineers

## PATH 03

Material Testing Technician  
Apply after several years of experience

Employment:  
Contractors  
Geotechnical Engineers



**You Could Become:**  
Material Testing Manager  
Foreman  
Site Superintendent  
Estimator  
Technical Sales Rep



# LABORATORY MATERIAL TESTING TECHNICIAN



Ontario Secondary School Diploma (OSSD) Recommended TDJ3M or TDJ4M



Essential Skills:  
Decision Making  
Numeracy  
Oral Communication  
Reading Text

## PATH 01

Civil Engineering Technologist  
College  
ENG4C  
MCT4C or MHF4U or MCV4U  
SPH3C

Employment:  
Contractors  
Geotechnical Engineers

## PATH 02


Civil Engineering Technician  
College  
ENG4C  
MCT4C

Employment:  
Contractors  
Geotechnical Engineers

## PATH 03

Laboratory Material Testing Technician  
Apply after several years of experience

Employment:  
Contractors  
Geotechnical Engineers



**You Could Become:**  
Material Testing Manager  
Foreman  
Site Superintendent  
Estimator  
Technical Sales Rep



# QUALITY CONTROL OFFICER



Ontario Secondary School Diploma (OSSD)  
Recommended  
TDJ3M or TDJ4M



Essential Skills:  
Decision Making  
Numeracy  
Oral Communication  
Numeracy

## PATH 01

College  
ENG4C  
MCT4C or MCF3M  
Recommended  
SPH3C

Employment:  
Consultants  
Municipalities  
Contractors



**You Could Become:**  
Quality Manager  
Foreman  
Site Superintendent  
Estimator  
Technical Sales Rep

# **SURVEYING**



# SURVEYOR



Ontario Secondary School Diploma (OSSD) Recommended TDJ3M or TDJ4M



Essential Skills:  
Oral Communication  
Decision Making  
Numeracy  
Document Use  
Reading Text

## PATH 01

Civil Engineering Technologist  
College  
ENG4C  
MCT4C or MHF4U or MCV4U  
SPH3C

Employment:  
Consultant  
Government

## PATH 02

Civil Engineering Technician  
College  
ENG4C  
MCT4C

Employment:  
Consultant  
Government

## PATH 03

Material Testing Technician

Apply after several years of experience to:  
Consultant  
Government



**You Could Become:**  
Surveyor Manager  
Site Inspector  
Drafter  
Drafter Manager  
Project Manager



**UTILITIES**



# APPRENTICE ELECTRICIAN



Ontario Secondary School Diploma (OSSD) Recommended TDJ3M or TDJ4M OYAP



Essential Skills: Decision Making Numeracy Oral Communication Measuring/Document Use Reading Text



Required: Q of C

## PATH 01

Electrician Apprenticeship

Construction and Maintenance 9000 hrs.

Employment: Contractor Self Employed

## PATH 02

Electrician Union Hall IEBW 353


Construction and Maintenance 9000 hrs.

Employment: Contractor Self Employed

## PATH 03

Non-Union Construction and Maintenance 9000 hrs.

Employment: Contractor Self Employed

 **You Could Become:**  
Lead Hand  
Foreman  
Site Superintendent  
Estimator



# GAS LINE INSTALLER



Ontario Secondary School Diploma (OSSD)  
Recommended  
TDJ3M or TDJ4M



Essential Skills:  
Decision Making  
Numeracy  
Oral Communication  
Reading text

## PATH 01

Employment:  
Utilities  
Consultant  
Government



**You Could Become:**  
Lead Hand  
Foreman  
Site Superintendent  
Estimator



# UTILITY LINE LOCATOR




Ontario Secondary School Diploma (OSSD)  
Recommended  
TDJ3M or TDJ4M



Essential Skills:  
Decision Making  
Numeracy  
Oral Communication  
Reading text

## PATH 01

Employment:  
Utilities  
Consultant  
Government

 **You Could Become:**  
Lead Hand  
Foreman  
Site Superintendent  
Estimator