

# CONSTRUCTION TECHNIQUES

**Program:** COTE  
**Credential:** Ontario College Certificate  
**Delivery:** Full-time  
**Length:** 2 Semesters  
**Duration:** 1 Year  
**Effective:** Fall 2024, Winter 2025  
**Location:** Muskoka

## Description

In this program, students develop hands-on skills and gain experience in a variety of construction-related skilled trades. Using project-based learning techniques, students focus on applying the basics of entrepreneurship and sustainability within the construction industry. Students are introduced to a variety of construction focused courses including carpentry, cabinetry, plumbing, electrical techniques, small engine mechanics, drafting and heating and cooling. In addition, students prepare to make informed decisions related to the next steps in their education and careers.

## Career Opportunities

Graduates gain a broad range of construction industry skills for general labour as well as entrance into Apprenticeship. Graduates may also elect to continue in a trade-specific techniques post-secondary program.

## Program Learning Outcomes

The graduate has reliably demonstrated the ability to:

1. identify and use strategies to enhance professional growth and ongoing learning in the construction field;
2. identify and adhere to established health and safety practices;
3. perform all construction tasks in compliance with applicable laws, regulations, codes and ethical practices in the construction field;
4. work in accordance with established sustainability practices;
5. collaborate with a range of tradespersons and project stakeholders to maintain effective working relationships;
6. communicate technical information to a variety of clients, supervisors and tradespersons to participate in the successful completion of construction projects;
7. identify and use industry-specific technologies to support construction projects;
8. solve on-site trade-related construction problems using mathematical equations and geometric concepts;
9. select, maintain and safely operate hand and power tools and equipment used in the building construction trades;
10. assist in the preparation of project estimates;
11. assist skilled tradespersons and perform labouring tasks at construction sites.

## Program Progression

The following reflects the planned progression for full-time offerings of the program.

## Fall Intake

- Sem 1: Fall 2024
- Sem 2: Winter 2025

## Winter Intake

- Sem 1: Winter 2025
- Sem 2: Fall 2025

## Admission Requirements

OSSD or equivalent with

- Grade 12 English (C or U)

Mature students, non-secondary school applicants (19 years or older), and home school applicants may also be considered for admission. Eligibility may be met by applicants who have taken equivalent courses, upgrading, completed their GED, and equivalency testing. For complete details refer to: [www.georgiancollege.ca/admissions/academic-regulations/](http://www.georgiancollege.ca/admissions/academic-regulations/) (<https://www.georgiancollege.ca/admissions/academic-regulations/>)

Applicants who have taken courses from a recognized and accredited post-secondary institution and/or have relevant life/learning experience may also be considered for admission; refer to the Credit for Prior Learning website for details:

[www.georgiancollege.ca/admissions/credit-transfer/](http://www.georgiancollege.ca/admissions/credit-transfer/) (<https://www.georgiancollege.ca/admissions/credit-transfer/>)

## Graduation Requirements

12 Program Courses  
 1 Communications Course  
 1 General Education Course

## Graduation Eligibility

To graduate from this program, the passing weighted average for promotion through each semester, and to graduate is 60%. Additionally, a student must attain a minimum of 50% or a letter grade of P (Pass) or S (Satisfactory) in each course in each semester unless otherwise stated on the course outline.

## Program Tracking

The following reflects the planned course sequence for full-time offerings of the Fall intake of the program. Where more than one intake is offered contact the program co-ordinator for the program tracking.

Semester 1		Hours
Program Courses		
CART 1013	Construction Practices	70
ELEC 1013	Electrical Trade Practices	42
MATH 1007	Mathematics Techniques	42
MENG 1003	Engine Function and Design	42
PLMB 1000	Plumbing Theory 1	42
PLMB 1001	Plumbing Practical 1	42
Communications Course		
Select 1 course from the communications list during registration.		42
<b>Hours</b>		<b>322</b>
Semester 2		
Program Courses		
CABT 1012	Finishing Processes	28

CABT 1013	Joinery and Fastening	42
CABT 1016	Finishing Applications	28
CART 1019	CAD Drafting	42
GAST 1000	Introduction to Electricity	42
GAST 1003	Introduction to Gas Appliances	70
General Education Course		
Select 1 course from the general education list during registration.		42
<b>Hours</b>		<b>294</b>
<b>Total Hours</b>		<b>616</b>

## Graduation Window

Students unable to adhere to the program duration of one year (as stated above) may take a maximum of two years to complete their credential. After this time, students must be re-admitted into the program, and follow the curriculum in place at the time of re-admission.

**Disclaimer:** *The information in this document is correct at the time of publication. Academic content of programs and courses is revised on an ongoing basis to ensure relevance to changing educational objectives and employment market needs.*

*Program outlines may be subject to change in response to emerging situations, in order to facilitate student achievement of the learning outcomes required for graduation. Components such as courses, progression, coop work terms, placements, internships and other requirements may be delivered differently than published.*