

PLUMBING TECHNIQUES

Program: PLTQ

Credential: Ontario College Certificate

Delivery: Full-time

Length: 2 Semesters

Duration: 1 Year

Effective: Fall 2025

Location: Midland

Description

The Plumbing Techniques program offers both the theoretical knowledge and practical training required to perform basic plumbing tasks.

Through a combination of in-class and hands-on learning, you will work individually and as part of a team to develop the fundamental skills required to start a career in the plumbing trade. You will engage in a variety of plumbing projects that include designing and drawing plans, implementing and working in adherence to National plumbing codes, and following health and safety protocols and practices, all of which are requirements of the plumbing trade.

This is an exciting opportunity to gain an introduction to skills-based learning and trade knowledge, which can serve as a foundation for further education through pathways into other affiliated skilled trades programs or apprenticeships or gain entry-level employment in a related field.

Career Opportunities

Upon completion of the program, graduates can apply for work as a plumber's apprentice. They may find a range of occupations in the plumbing field, including construction, maintenance, industrial, as well as service related opportunities in wholesale, retail and municipal waterworks. Graduates choosing to continue their education may opportunities HVAC, gas fitting and municipal utilities operation.

Graduates are eligible for exemption from Level 1 in-school training requirements when entering 306A Plumber apprenticeship.

Program Learning Outcomes

The graduate has reliably demonstrated the ability to:

1. work according to contractual obligations in compliance with the National Plumbing Code and regulations, the project manual, and appropriate standards and bylaws;
2. interpret and produce drawings required for the successful completion of basic plumbing projects in residential, commercial, and industrial settings adhering to relevant codes;
3. work responsibly and effectively with others and in accordance with appropriate practices and procedures and in compliance with health and safety legislation;
4. use tools and equipment for basic installation manufacture, and repair of components to required specifications;
5. contribute to the planning and organizing of plumbing and installation projects by defining problems and solutions with a journeyperson;
6. solve routine problems related to work environments using a variety of systematic approaches;

7. identify plumbing installation procedures and components to meet the appropriate plumbing requirement, context, or setting;
8. perform basic welds using cutting techniques and welding equipment in accordance with regulatory bodies and safety guidelines;
9. respond to environmental issues related to the plumbing trade;
10. employ entrepreneurial strategies to identify and respond to new opportunities.

Program Progression

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

Fall Intake

- **Sem 1:** Fall 2025
- **Sem 2:** Winter 2026

Admission Requirements

- Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status
- 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/ (<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/ (<https://www.georgiancollege.ca/admissions/credit-transfer/>)

Graduation Requirements

- 10 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		
ENVR 1010	Environmental Health and Safety-Plumbing	42
MATH 1007	Mathematics Techniques	42
PLMB 1000	Plumbing Theory 1	42

PLMB 1001	Plumbing Practical 1	42
PLMB 1002	Plumbing Codes and Standards 1	42
Communications Course		
Select 1 course from the communications list during registration.		42
Hours		252
Semester 2		
Program Courses		
DRFT 1015	Plumbing Drafting and Blueprint Reading	42
PLMB 1003	Plumbing Theory 2	42
PLMB 1004	Plumbing Practical 2	42
PLMB 1005	Plumbing Codes and Standards 2	42
PLMB 1006	Welding and Pipe Cutting Processes	42
General Education Course		
Select 1 course from the general education list at the time of registration.		42
Hours		252
Total Hours		504

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.