

GAS TECHNICIAN

Program: GAST

Credential: Ontario College Certificate

Delivery: Full-time + Part-time

Length: 3 Semesters

Duration: 1 Year

Effective: Fall 2025

Location: Barrie (evenings and weekends only)

Description

In this program, students develop the theoretical and practical skills required to obtain the Technical Standards and Safety Authority (TSSA) Gas Technician 3 (G.3) and Gas Technician 2 (G.2) certifications. Students study workplace safety, codes/regulations, propane fundamentals, system testing and troubleshooting in order to maintain and install gas-fired equipment in residential and commercial settings.

Career Opportunities

Graduates are primarily prepared for a career as a gas technician. Employment may also be found in the areas of technical support and sales within the industry. There are also a number of apprenticeships that graduates may pursue in areas such as sheet metal, refrigeration, plumbing, and pipe fitting. For those who want to work in these trades, an apprenticeship is required after graduation. By the end of the program students are eligible to write their TSSA Gas Technician 3 (G.3) and Gas Technician 2 (G.2) exams in order to become fully qualified and licensed technicians.

Program Learning Outcomes

The graduate has reliably demonstrated the ability to:

1. collaborate with colleagues and other departments to ensure a cohesive and integrated approach to customer services;
2. comply with legislation, standards, and ethical practices to ensure safety of clients, self and others;
3. comply with all codes and regulations in the operation of natural gas and propane appliances to perform to the standards of a gas technician;
4. adhere to manufacturers' installation manuals to ensure the safe and expected operation of the equipment;
5. maintain and service natural gas and propane-related systems and appliances to ensure proper and efficient operation;
6. diagnose and address electrical issues when installing and connecting gas appliances to ensure proper functioning;
7. identify gas appliances as integral components of the 'building-as-a-system' to ensure the correct selection, installation, and operation of heating systems;
8. identify and apply strategies for ongoing personal and professional development to enhance work performance, career opportunities, and keep pace with industry changes;
9. employ environmentally sustainable practices within the profession to follow provincial jurisdictional regulations;

10. identify potential entrepreneurial strategies to 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
- **Sem 3:** Summer 2026

Barrie campus delivered evenings and weekends only

Admission Requirements

- Ontario Secondary School Diploma (OSSD) or equivalent, mature student status 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/ (<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/>)

Additional Information

Gas Technician work in Ontario requires Gas Technician license (Ontario Certificate of Qualification), which is governed by Technical Standards and Safety Authority (TSSA). The college facilitates Gas Technician 3 (G.3) and Gas Technician 2 (G.2) Ontario Certificate of Qualification Examinations on campus at the end of the first and third semesters, respectively.

The cost of each examination is not included in the tuition fee. Gas Technician 3 (G.3) and Gas Technician 2 (G.2) Ontario Certificates of Qualification are not graduation requirements for this program.

Gas Technician (GAST) program students wanting to transfer to the Heating, Refrigeration and Air Conditioning (HRAC) program are required to:

- meet graduation requirements of the Gas Technician (GAST) program
- meet the admission requirements of the Heating, Refrigeration and Air conditioning (HRAC) program including a 12C or U math course or equivalent
- complete and submit a request for program change form

Successful applicants will be exempted from the first 3 semesters of the Heating, Refrigeration and Air Conditioning (HRAC) program.

Graduation Requirements

- 13 Program Courses
- 2 Communications Courses
- 2 General Education Courses

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		
ELEC 1010	Introduction to Electricity	70
GAST 1003	Introduction to Gas Appliances	70
GAST 1013	Professional Practices	28
GAST 1014	Piping and Tubing Systems	28
Communications Course		
Select 1 course from the communications list during registration.		42
Hours		238
Semester 2		
Program Courses		
ELEC 1011	Basic Electricity and Controls	56
GAST 1015	Gas Appliances	70
GAST 1020	Buildings and Air Handling	28
HRAC 1002	HRAC Business Development	28
Communications Course		
Select 1 course from the communications list during registration.		42
General Education Course		
Select 1 course from the General Education list during registration		42
Hours		266
Semester 3		
Program Courses		
ELEC 1012	Electrical Troubleshooting Applications	28
GAST 1021	Piping, Forced Air and Space Heating	70
GAST 1022	Water Heaters and Hydronic Heating	70
GAST 1017	Venting	28
HRAC 2005	HRAC Human Resource Foundations	28
General Education Course		
Select 1 course from the general education list during registration.		42
Hours		266
Total Hours		770

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.

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