

# PLUMBING TECHNIQUES PROGRAM (T165)

<b>PROGRAM NAME</b>	Plumbing Techniques	<b>TUITION</b>	\$5,312.00*
<b>COURSE CODE</b>	T165	<b>ADDITIONAL COST</b>	
<b>SCHOOL</b>	School of Apprenticeship and Skilled Trades	* Amounts listed are the total of tuition, materials, student service and ancillary fees for the first two semesters of programs starting in fall 2017. Fees are subject to change for programs starting in fall 2018 and at later dates	
<b>CENTRE</b>	Construction Engineering Technology	<b>International students:</b> Visit the International Fees and Related Costs <sup>2</sup> page for more information.	
<b>LOCATION</b>	Casa Loma Campus		
<b>DURATION</b>	1 year (2 semesters)		
<b>STARTING MONTH</b>	May		
<b>CREDENTIAL</b>	Ontario College Certificate		
<b>YEAR OF STUDY</b>	2018-2019		
<b>METHOD OF STUDY</b>	FT		
<b>APPLY TO</b>	Ontario Colleges <sup>1</sup>		

The Plumbing Techniques program focuses on residential, commercial and industrial applications in the plumbing industry, paying particular attention to residential plumbing. It is a hands-on program that may benefit anyone seeking to enter an apprenticeship or any construction-related career path.

Through hands-on projects you will learn about:

- Tools, materials, equipment and methods used in the plumbing industry
- Estimating materials and labour costs
- Proper use of hand tools and power tools
- Safety practices and procedures associated with these tools

The program includes studying industry standards and building codes while considering health and safety issues and energy conservation.

Projects include:

- Constructing and testing both drain and water systems
- Learning how to install hot water heaters and a variety of residential plumbing fixtures.
- Research on the science of sanitation, water, and the forces acting on a sealed piping system with and without atmospheric pressure applied to it.
- Studying blueprints and learning basic drafting techniques that will enable you to design, comprehend and build plumbing systems.
- A final project will focus on how to maintain the plumbing system you install and those that you may encounter in the future.



## THE INDUSTRY

The construction industry is one of the country's largest employers, and skilled trades workers are among the highest paid and most in demand in Canada.

## PROGRAM STANDARDS AND LEARNING OUTCOMES

The graduate has reliably demonstrated the ability to:

1. Work according to contractual obligations; the project manual; and applicable laws, standards, bylaws, and codes.
2. Perform residential plumbing projects effectively and accurately by interpreting and producing basic data in graphic, oral and written formats.
3. Work responsibly and effectively with others and in accordance with appropriate practices, 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 organizing and planning of residential plumbing installation projects.
6. Solve routine problems related to work environments using a variety of systemic approaches.

## REQUIRED COURSES

### SEMESTER 1

Code	Course name
BLDG1112	Introduction to Plumbing (Theory)
BLDG1113	Experience Plumbing (Shop)
BLDG1114	Trade Documentation
BLDG1110	Introduction to Welding and Steamfitting (Theory)
BLDG1111	Experience Welding and Steamfitting (Shop)
COMM1007	College English

## SEMESTER 2

Code	Course name
BLDG1115	Safety, Hoisting and Rigging
BLDG1116	Plumbing Theory
BLDG1117	Plumbing Practical Techniques
BLDG1118	Plumbing Math
BLDG1119	Blueprints and Graphic Communication
GNED	General Education Elective

## YOUR CAREER

As a graduate of the program, you can bring entry-level plumbing skills to future employers. You can use this Plumbing Techniques program in pursuing related work in areas such as:

- Plumber
- Steamfitter
- Sprinkler Systems Installer
- Gas Fitter
- Sales and Distribution

## ADMISSION REQUIREMENTS

Applicants are selected on the basis of their academic achievement, including the required courses, and any other selection criteria outlined below.

- Ontario Secondary School Diploma or equivalent\*\*
- Grade 12 English (C or U)
- Grade 11 Math (M or U) or Grade 12 (C or U)

### \*\* MATURE STUDENT STATUS (19 YEARS OF AGE OR OLDER AND NO OSSD)

Mature Students may take the Admissions Assessment<sup>3</sup> for English and Math, OR may consider upgrading to achieve the credit(s) needed in English<sup>4</sup> and Math<sup>5</sup>.

Please note that George Brown is committed to ensuring that applicants will succeed in their program of choice and meeting the minimum requirements does not guarantee admission to the program. Applicants may be required to have grades higher than the minimum requirements stated.

## COURSE EXEMPTIONS

College or university credits may qualify you for course exemptions. Please visit [georgebrown.ca/transferguide](http://georgebrown.ca/transferguide) for more information.

## INTERNATIONAL STUDENTS

Visit the International Admissions<sup>6</sup> page for more information.

## CONTACT US

### School of Apprenticeship and Skilled Trades

Phone: 416-415-5000, ext. 6711

Email: [bmulveney@georgebrown.ca](mailto:bmulveney@georgebrown.ca)

Office: Casa Loma Campus, Room E308

For more information about George Brown College, you may also call the Contact Centre at 416-415-2000 (TTY 1-877-515-5559) or long distance 1-800-265-2002.

## VISIT OUR CAMPUS

Do you have questions about this program or your career options? Join us for an on-campus Information Session. You'll have the opportunity to meet our friendly instructors and staff, ask questions and experience what it's like to be in a George Brown College classroom. Sign up for an Information Session<sup>7</sup>.

## LINKS REFERENCE

<sup>1</sup>[https://collegeapply.ontariocolleges.ca/?](https://collegeapply.ontariocolleges.ca/?collegeCode=GBTC&programCode=T165&lang=en)

[collegeCode=GBTC&programCode=T165&lang=en](https://collegeapply.ontariocolleges.ca/?collegeCode=GBTC&programCode=T165&lang=en)

<sup>2</sup><http://www.georgebrown.ca/international/futurestudents/tuitionfees/>

<sup>3</sup><http://www.georgebrown.ca/assessment/admi-pre/>

<sup>4</sup><http://www.georgebrown.ca/upgrading-credits/english-diploma/>

<sup>5</sup><http://www.georgebrown.ca/upgrading-credits/math-diploma/>

<sup>6</sup><http://www.georgebrown.ca/international/futurestudents/applynow/>

<sup>7</sup>[http://www.georgebrown.ca/tours\\_technology/](http://www.georgebrown.ca/tours_technology/)

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