This program is designed to teach you new construction and building renovation skills from both an applied perspective and a management perspective, including carpentry techniques and new materials applications while providing a solid understanding of the renovation-related trades.

Hands-on training takes place in fully equipped labs where students practice current techniques related to renovations and new home construction, using sustainable design principles. The third year of the program focuses on project management skills required to work in a supervisory role. You will also have an introductory exposure to the business skills that can be adapted to starting and running a renovation, custom home building or general contracting business.

Practical applications include:

- Residential construction and renovations
- Millwork
- Demolition
- Framing
- Finishes
- Drywall installation and finishing
- Site management
- Cabinetry
- Stair construction
- Building code
- Basic electrical, HVAC, and plumbing systems.

Business skills include:

- Business management
- Marketing
- Client relations
- Project management

• Site management
• Scheduling
• Controlling, estimating and bookkeeping
• Budgeting and financial management
• Inspections

You will also learn how to use and apply computer software and technology currently used in the construction industry, including spreadsheets, computer-aided design, estimating, project management and presentation tools.

Note: When you enrol in the program in January, you are required to complete semester 2 in the summer (May to August) of the same year in order to continue into semester 3 in the fall.

This program is unique in Ontario.

**PART TIME STUDY OPTIONS**

Part-time study options are not available for this program; however, our Continuing Education department offers evening courses and part-time certificate programs in Building/Construction Technologies. See coned.georgebrown.ca

**EXPERIENTIAL LEARNING**

Mandatory Field Placement

**YOUR FIELD STUDY OPTIONS**

This program requires the successful completion of two semesters of field placement. George Brown works with employers and industry partners to identify potential work experience opportunities. Students are also strongly encouraged to pursue self-directed industry work experience opportunities they believe would provide the learning experiences they value and meet the learning outcomes of the program. This valuable work experience can in turn be added to your resume.
In addition to more formal on-the-job work experience, George Brown College endeavours to provide additional learning opportunities with real-world challenges and clients. Find out more about field education at our Industry Liaison Office.

PROGRAM STANDARDS AND LEARNING OUTCOMES

The graduate has reliably demonstrated the ability to:

1. Develop and use strategies for ongoing professional development to remain current with industry changes, enhance work performance and explore career opportunities.
2. Comply with and monitor health and safety practices and procedures in accordance with current legislation and regulations.
3. Prepare quotes and monitor that work is completed in compliance with the rights and conditions of contractual obligations, the Ontario and/or National Building Codes, applicable laws, bylaws, standards and ethical practices in the building construction and renovation field.
4. Promote and maintain sustainability practices in the implementation of building construction and renovation projects.
5. Facilitate collaboration and interaction among a range of tradespersons and project stakeholders to support timely completion of building construction and renovation projects.
6. Review and interpret project plans and produce technical sketches and documents to support building construction and renovation projects.
7. Use technologies to obtain, analyze, organize and communicate building construction and renovation information.
8. Analyze and solve technical problems related to the design and implementation of building construction and renovation projects by applying the principles of advanced technical mathematics, building design and building science.
9. Select, maintain and safely use hand tools, and portable and stationary power tools, when performing layout, cutting, fitting and assembly operations.
10. Complete building and renovation stages, from site layout and footings to the application of interior and exterior finishes, in accordance with blueprint specifications and conservation principles.
11. Evaluate the methods employed and the use of equipment and materials involved in the completion of building construction and renovation projects.
12. Schedule, coordinate and monitor the progression of building construction and renovation projects by applying principles and strategies of project management.
13. Design and implement business strategies to develop home building, renovation and re-development enterprises.
14. Apply leadership, supervision and interpersonal skills to manage building construction and renovation projects.

REQUiRED COURSES

SEMMESTER 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
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<td>BLDG 1009</td>
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<tr>
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</table>

SEMMESTER 2

<table>
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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>BLDG 1081</td>
<td>Construction Safety &amp; Rigging</td>
</tr>
<tr>
<td>BLDG 1082</td>
<td>Construction Layout</td>
</tr>
<tr>
<td>DRFT 2017</td>
<td>Architectural Plan Interpretation 2</td>
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<tr>
<td>GSCI 1022</td>
<td>Building Science &amp; Environment</td>
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<tr>
<td>PORT 1001</td>
<td>Portfolio</td>
</tr>
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<td>BLDG2003</td>
<td>ICI Renovation</td>
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<td>MATH1146</td>
<td>Mathematics for Building Technologies 2</td>
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SEMMESTER 3

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<tr>
<th>Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>BLDG1020</td>
<td>Interior Millwork and Finishes</td>
</tr>
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<td>BLDG2033</td>
<td>Field Placement 1</td>
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<td>Deconstruction Methods</td>
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<td>COMM1113</td>
<td>Professional Communications for Building Technologies</td>
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<td>GNED</td>
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SEMMESTER 4

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<th>Course Name</th>
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<td>BLDG2008</td>
<td>Associated Trades – Applied Theory and Applications</td>
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<td>BLDG2027</td>
<td>Field Placement 2</td>
</tr>
<tr>
<td>BLDG2050</td>
<td>Estimating</td>
</tr>
<tr>
<td>BLDG2071</td>
<td>Site Management and Industry Practices</td>
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SEMMESTER 5

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<td>BLDG2047</td>
<td>Planning and Scheduling</td>
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<td>BLDG3153</td>
<td>Residential Design 1 (CAD)</td>
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<td>BLDG3154</td>
<td>Construction Economics and Real Estate Property Development</td>
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<td>BLDG3155</td>
<td>Business Management and Development</td>
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<tr>
<td>BLDG3157</td>
<td>Inspections</td>
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<td>BLDG3158</td>
<td>Financial Management and Bookkeeping</td>
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SEMESTER 6

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<th>Course Name</th>
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<tr>
<td>BLDG1013</td>
<td>Zoning and Building Regulations</td>
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<td>BLDG1164</td>
<td>Fundamentals of Building Science</td>
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<td>BLDG2022</td>
<td>Law and Construction Contracts</td>
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<td>BLDG3026</td>
<td>Sustainable Building Rating Systems and</td>
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<td>Renovation Practices</td>
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<td>BLDG3159</td>
<td>Residential Design 2 (CAD)</td>
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<td>BLDG3161</td>
<td>Building Renovation Project Management</td>
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<td>Capstone</td>
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</table>

YOUR CAREER

Graduates may find employment in many areas of the renovation and construction field. Opportunities include:

- Renovation
- General contracting
- Custom home building
- Green technology
- Site supervision
- Project management
- Estimating
- Technical sales
- Home inspections
- Carpentry
- Self-employment

FUTURE STUDY OPTIONS

Qualified graduates may be eligible for direct entry into the third year of the George Brown College Honours Bachelor of Technology (Construction Management) (T316) degree program. Bridge courses will be required.

For more information, see georgebrown.ca/T316/

EDUCATIONAL/DEGREE PATHWAY

Qualified graduates may be eligible for direct entry into the third year of the George Brown College Honours Bachelor of Technology (Construction Management) degree program. Bridge courses will be required.

For more information, see georgebrown.ca/T312_Diploma_to_Degree

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 for English and Math, OR may consider upgrading to achieve the credit(s) needed in English and Math.

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 for more information.

INTERNATIONAL STUDENTS

Visit the International Admissions page for more information.

APPLY TO

Domestic students should apply through Ontario Colleges.

CONTACT US

School of Apprenticeship and Skilled Trades
Phone: 416-415-5000, ext. 6711
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Office: Casa Loma Campus, Room E308
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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.

LINKS REFERENCE

2 https://www.georgebrown.ca/international/futurestudents/tuitionfees/
3 https://www.georgebrown.ca/industry/cet/
4 https://www.georgebrown.ca/programs/honours-bachelor-of-technology-construction-management-t312/
5 https://www.georgebrown.ca/assessment/admi-pre/
6 https://www.georgebrown.ca/upgrading-credits/english-diploma/
7 https://www.georgebrown.ca/upgrading-credits/math-diploma/
8 https://www.georgebrown.ca/international/futurestudents/howtoapply/
10 https://www.georgebrown.ca/tours_technology/

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Building Renovation Technician is a two-year program designed to prepare you for employment in the renovation and construction field, with sustainable design principles being key.

You will learn new construction and building renovation skills, carpentry techniques and new materials applications while gaining a solid understanding of the renovation-related trades. Hands-on training takes place in fully equipped labs where students practice framing and finishing techniques using sustainable design principles.

Practical applications include:
- Residential construction and renovations
- Millwork
- Demolition
- Framing
- Finishes
- Drywall installation and finishing
- Site management
- Cabinetry
- Stair construction
- Building code
- Basics in electrical, HVAC, and plumbing systems
- Estimating

Note: When you enrol in the program in January, you are required to complete semester 2 in the summer (May to August) of the same year in order to continue into semester 3 in the fall.
2. Comply with health and safety practices and procedures in accordance with current legislation and regulations.

3. Assist in the preparation of material estimations and quotes and complete all work in compliance with the rights and conditions of contractual obligations, the Ontario and/or National Building Codes, applicable laws, bylaws, standards and ethical practices in the construction, renovation and conservation building fields.

4. Incorporate sustainability practices in the implementation of building construction, renovation and conservation projects in accordance with sustainable building guidelines.

5. Communicate and collaborate with diverse clients, supervisors, coworkers and tradespersons to complete projects on time and to maintain effective working relationships.

6. Interpret project plans and produce technical sketches and documents to support building construction and renovation projects.

7. Select and use technologies to obtain, organize and communicate building construction and renovation information.

8. Solve problems related to the implementation of building construction and renovation projects by applying the principles of basic technical mathematics, building design and building science.

9. Select, maintain and safely use hand tools, and portable and stationary power tools, when performing layout, cutting, fitting and assembly operations.

10. Complete building and renovation stages, from site layout and footings to the application of interior and exterior finishes, in accordance with blueprint specifications and conservation principles.

11. Select a range of materials and equipment for their appropriate application to building construction and renovation projects.

12. Schedule and assist in monitoring the progression of building construction and renovation projects by applying basic principles and strategies of project management.

13. Apply basic business principles and strategies to the operation of building construction and/or renovation enterprise.

REQUIRED COURSES

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<td>BLDG2071</td>
<td>Site Management and Industry Practices</td>
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YOUR CAREER

Graduates may find employment in many areas of the renovation and construction field. Opportunities may include:

- Renovation
- General contracting
- Custom home building
- Carpentry
- Site supervision
- Estimating
- Technical sales
- Home inspections

FUTURE STUDY OPTIONS

This program shares the first four semesters with the three-year Building Renovation Technology advanced diploma program (T148). Students may be eligible to proceed to semester 5 of the program.

Pathways to the Honours Bachelor of Technology (Construction Management) degree program are available from the Building Renovation Technology advanced diploma program (T148). Bridge courses will be required. For more information, see georgebrown.ca/T312_Diploma_to_Degree
EDUCATIONAL/DEGREE PATHWAY

Pathways for direct entry into the third year of the Honours Bachelor of Technology (Construction Management) degree program are available from the Building Renovation Technology advanced diploma program (T148).

For more information, see georgebrown.ca/T312_Diploma_to_Degree

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 for English and Math, OR may consider upgrading to achieve the credit(s) needed in English and Math.

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COURSE EXEMPTIONS

College or university credits may qualify you for course exemptions. Please visit georgebrown.ca/transferguide for more information.

INTERNATIONAL STUDENTS

Visit the International Admissions page for more information.

APPLY TO

Domestic students should apply through Ontario Colleges

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2. https://www.georgebrown.ca/international/futurestudents/tuitionfees/
3. https://www.georgebrown.ca/industry/cet/
5. https://www.georgebrown.ca/assessment/admi-pre/
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"I'm working hard to maintain George Brown College’s good reputation. I never realized that I would get such enjoyment and be so enthusiastic about going to school here – the hard work I put in all seems worth it."

Delonny Octave (Student, Building Renovation Technician)

CONTACT US

School of Apprenticeship and Skilled Trades
Phone: 416-415-5000, ext. 6711
Email: 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.
CONSTRUCTION TECHNIQUES PROGRAM (T176) (PREVIOUSLY T126)

<table>
<thead>
<tr>
<th>PROGRAM NAME</th>
<th>Construction Techniques</th>
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<tbody>
<tr>
<td>COURSE CODE</td>
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<tr>
<td>SCHOOL</td>
<td>School of Apprenticeship and Skilled Trades</td>
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<tr>
<td>CENTRE</td>
<td>Construction Engineering Technology</td>
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<tr>
<td>LOCATION</td>
<td>Casa Loma Campus</td>
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<tr>
<td>DURATION</td>
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<td>STARTING MONTH</td>
<td>September, January, May</td>
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<tr>
<td>CREDENTIAL</td>
<td>Ontario College Certificate</td>
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<td>YEAR OF STUDY</td>
<td>2020-2021</td>
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<td>METHOD OF STUDY</td>
<td>FT</td>
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<td>APPLY TO</td>
<td>Ontario Colleges</td>
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</table>

The Construction Techniques program covers popular construction trade areas and has three intakes per year.

This program is designed to offer you choices when considering a career in the construction sector. It exposes you to a variety of trades allowing you to determine where your interests lie. The program will prepare you with basic skills that will assist you in taking the next steps in your career path.

Semester 1: Electrical/Millwrighting

Semester 2: Sheet Metal/Air Conditioning/Carpentry

Semester 3: Welding/Steamfitting/Plumbing

Through practical projects interwoven with theoretical learning, you will gain confidence and experience in the individual trade sections, giving you the information necessary to make informed career choices as well as a good understanding of the construction process.

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.

Ontario will need to attract over 100,000 new construction workers over the next 10 years.

PROGRAM STANDARDS AND 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.

REQUIRED COURSES

<table>
<thead>
<tr>
<th>SEMESTER 1</th>
<th>Course name</th>
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<tbody>
<tr>
<td>BLDG1124</td>
<td>Electrical Trade Theory</td>
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<td>BLDG1125</td>
<td>Introduction to Electrical – Code and Prints</td>
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<td>BLDG1121</td>
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<td>BLDG1122</td>
<td>Technical Drawing</td>
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<td>BLDG1123</td>
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<th>SEMESTER 2</th>
<th>Course name</th>
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<td>Carpentry Trade Shop</td>
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<td>BLDG1134</td>
<td>Trade Calculations</td>
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<td>BLDG1135</td>
<td>Refrigeration Trade Theory</td>
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<tr>
<td>BLDG1137</td>
<td>Sheet Metal Trade Theory</td>
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<td>BLDG1138</td>
<td>Refrigeration Trade Shop</td>
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<td>BLDG1139</td>
<td>Sheet Metal Trade Shop</td>
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<td>GNED</td>
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</table>
YOUR CAREER

As a graduate of the program, you can bring a broad range of skills to future employers. Once you have decided which sector of the industry interests you, you can seek employment in that area or increase your marketability and knowledge by continuing on to a one-year, two-year or three-year program at George Brown College.

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 Assessment3 for English and Math, OR may consider upgrading to achieve the credit(s) needed in English4 and Math5.

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 for more information.

INTERNATIONAL STUDENTS

Visit the International Admissions6 page for more information.

APPLY TO

Domestic students should apply through Ontario Colleges7.

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Email: 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

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Sign up for an Information Session8.

LINKS REFERENCE

2https://www.georgebrown.ca/international/futurestudents/tuitionfees/
3https://www.georgebrown.ca/assessment/admi-pre/
4https://www.georgebrown.ca/upgrading-credits/english-diploma/
5https://www.georgebrown.ca/upgrading-credits/math-diploma/
6https://www.georgebrown.ca/international/futurestudents/howtoapply/
8https://www.georgebrown.ca/tours_technology/

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“Alicia Parrott-Barros (Graduate, Construction Trades Techniques)
ELECTRICAL TECHNIQUES PROGRAM (T167)

Program Name: Electrical Techniques
Course Code: T167
School: School of Apprenticeship and Skilled Trades
Centre: Construction Engineering Technology
Location: Casa Loma Campus
Duration: 1 year (2 semesters)
Starting Month: May
Credentia: Ontario College Certificate
Year of Study: 2020-2021
Method of Study: FT
Apply to: Ontario Colleges

Tuition: $4,929.00 *
Additional Cost: * Amounts listed are the total of tuition, materials, student service and ancillary fees for the first two semesters of programs starting in fall 2019. Fees are subject to change for programs starting in fall 2020 and at later dates.
International students: Visit the International Fees and Related Costs page for more information.

Financial Assistance: This program is approved for OSAP funding, provided the applicant meets OSAP eligibility criteria.

The program covers installation, testing, maintenance, analysis and troubleshooting of specified electrical circuits, equipment and systems under the supervision of a qualified person. Throughout the program, students will learn to apply health and safety standards to their work, and perform tasks in accordance with the standards of the Canadian Electrical Code.

Graduates will receive a post-secondary certificate.

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. Assist in the interpretation and preparation of electrical drawings including other related documents and graphics.
2. Analyze and solve simple technical problems related to basic electrical systems by applying mathematics and science principles.
3. Use and maintain test and instrumentation equipment.
4. Assemble basic electrical circuits and equipment to fulfill requirements and specifications under the supervision of a qualified person.
5. Assist in the installation and troubleshooting of basic electrical machines and associated control systems under the supervision of a qualified person.
6. Assist in testing and troubleshooting electrical and electronic circuits, equipment, and systems by using established procedures under the supervision of a qualified person.
7. Assist in the troubleshooting of control systems under the supervision of a qualified person.
8. Use computer skills and tools to solve basic electrical related problems.
9. Assist in conducting quality assurance procedures under the supervision of a qualified person.
10. Assist in the preparation and maintenance of records and documentation systems.
11. Install and assist in testing telecommunication systems under the supervision of a qualified person.
12. Apply health and safety standards and best practices to workplaces.
13. Perform tasks in accordance with relevant legislation, policies, procedures, standards, regulations, and ethical principles.
14. Apply basic electrical cabling requirements and install and test system grounding for a specified number of applications under the supervision of a qualified person.
15. Identify problems and troubleshoot electrical systems under the supervision of a qualified person.
16. Assist in the selection of electrical equipment, systems and components to fulfill the requirements and specifications under the supervision of a qualified person.
REQUIRED COURSES

SEMESTER 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>ELCL1047</td>
<td>Residential Prints and Electrical Safety</td>
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<tr>
<td></td>
<td>Code 1</td>
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<tr>
<td>ELCL1048</td>
<td>Electrical Installation Methods 1</td>
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<tr>
<td>ELCL1049</td>
<td>Electrical Theory 1</td>
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<tr>
<td>ELCL1050</td>
<td>Instrumentation 1</td>
</tr>
<tr>
<td>ELCL1051</td>
<td>Electrical and Workplace Safety</td>
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<tr>
<td>COMM1007</td>
<td>College English</td>
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SEMESTER 2

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<tr>
<td>ELCL1057</td>
<td>Residential Prints and Electrical Safety</td>
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<td>Code 2</td>
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<tr>
<td>ELCL1058</td>
<td>Electrical Installation Methods 2</td>
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<td>ELCL1059</td>
<td>Electrical Theory 2</td>
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<td>ELCL1060</td>
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<td>ELCL1061</td>
<td>Electronics</td>
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<td>GNED</td>
<td>General Education Elective</td>
</tr>
</tbody>
</table>

YOUR CAREER

Graduates of the program bring a wide range of skills to future employers. This program increases your marketability and knowledge of the electrical industry. You may also be interested in continuing on to a two-year or three-year program at George Brown College.

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\(^3\) for English and Math, OR may consider upgrading to achieve the credit(s) needed in English\(^4\) and Math\(^5\).

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 for more information.

INTERNATIONAL STUDENTS

Visit the International Admissions\(^6\) page for more information.

APPLY TO

Domestic students should apply through Ontario Colleges\(^7\)

CONTACT US

School of Apprenticeship and Skilled Trades  
Phone: 416-415-5000, ext. 6711  
Email: bmulveney@georgebrown.ca  
Room: 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.

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Sign up for an Information Session\(^8\).

LINKS REFERENCE

2. https://www.georgebrown.ca/international/futurestudents/tuitionfees/
5. https://www.georgebrown.ca/upgrading-credits/math-diploma/
6. https://www.georgebrown.ca/international/futurestudents/howtoapply/
8. https://www.georgebrown.ca/tours_technology/

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Rising fuel costs, indoor air quality and climate change are all contributing factors in raising awareness of the true cost of energy. There is a great need for energy-efficient building environmental system design, construction and maintenance.

In the Heating, Refrigeration and Air Conditioning Technician program students will:

- Develop the ability to size, install and maintain building environmental systems for the residential and light commercial sector.
- Gain solid skills and knowledge in design, operation and maintenance of environmental systems, in heating, ventilation, air conditioning and refrigeration (HVAC/R).
- Develop practical skills through hands-on experience, working on a wide range of furnaces, air conditioners, refrigeration equipment and other appliances in our labs.
- Gain competency with industry-ready skills in soldering, wiring and electric control circuitry and troubleshooting for HVAC and gas installations.
- Use computer-aided design software to assess building heating and cooling requirements, select appropriate equipment and develop HVAC system drawings and specifications for the residential market.

The program follows industry-standard design practices for environmentally responsible and energy-efficient residential, commercial and industrial systems, as established by the Heating, Refrigeration and Air Conditioning Institute (HRAI), the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) and the Canada Green Building Council.

Note: When you enrol in the program in January, you are required to complete semester 2 in the summer (May to August) of the same year in order to continue into semester 3 in the fall.

PART TIME STUDY OPTIONS

Part-time study options are not available for this program; however, our Continuing Education department offers evening courses and part-time certificate programs in Building/Construction Technologies. See

PROGRAM STANDARDS AND LEARNING OUTCOMES

The graduate has reliably demonstrated the ability to:

1. Relate effectively to heating, refrigeration, and air conditioning supervisors, coworkers, and customers.
2. Work safely and in accordance with all applicable acts, regulations, legislation, and codes to ensure personal and public safety.
3. Select and use a variety of heating, refrigeration, and air conditioning tools and equipment safely and properly.
4. Solve math and applied science problems required to effectively install and maintain heating, refrigeration, and air conditioning systems, and associated components.
5. Prepare and interpret electrical, mechanical, and piping drawings.
6. Install, service, and troubleshoot heating, refrigeration, air conditioning systems, and associated components.
7. Develop strategies for ongoing personal and professional development, that will lead to enhanced work performance and career opportunities, and keep pace with industry changes.
REQUIRED COURSES

SEMESTER 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Course name</th>
</tr>
</thead>
<tbody>
<tr>
<td>HVAC1001</td>
<td>Refrigeration Theory I</td>
</tr>
<tr>
<td>HVAC1006</td>
<td>Electrical Fundamentals for HVAC</td>
</tr>
<tr>
<td>HVAC1018</td>
<td>Gas Technician III</td>
</tr>
<tr>
<td>GSCI1022</td>
<td>Building Science and the Environment</td>
</tr>
<tr>
<td>MATH1136</td>
<td>Mathematics for Building Technologies 1</td>
</tr>
<tr>
<td>COMM1007</td>
<td>College English</td>
</tr>
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</table>

SEMESTER 2

<table>
<thead>
<tr>
<th>Code</th>
<th>Course name</th>
</tr>
</thead>
<tbody>
<tr>
<td>HVAC1003</td>
<td>Refrigeration Laboratory Applications</td>
</tr>
<tr>
<td>HVAC1008</td>
<td>Electrical Circuit Analysis for HVAC</td>
</tr>
<tr>
<td>HVAC1016</td>
<td>Gas Technician II (Part A)</td>
</tr>
<tr>
<td>HVAC1022</td>
<td>Understanding Construction Drawings</td>
</tr>
<tr>
<td>HVAC2003</td>
<td>Refrigeration Theory II</td>
</tr>
<tr>
<td>MATH1146</td>
<td>Mathematics for Building Technologies 2</td>
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<td>GNED</td>
<td>General Education Elective</td>
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</table>

SEMESTER 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Course name</th>
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</thead>
<tbody>
<tr>
<td>HVAC1017</td>
<td>Gas Technician II (Part B)</td>
</tr>
<tr>
<td>HVAC2001</td>
<td>Residential HVAC System Design</td>
</tr>
<tr>
<td>HVAC2012</td>
<td>Air Conditioning Theory</td>
</tr>
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<td>HVAC2014</td>
<td>Building Code for HVAC</td>
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<tr>
<td>PORT1001</td>
<td>Portfolio</td>
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SEMESTER 4

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<th>Code</th>
<th>Course name</th>
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<tr>
<td>HVAC1021</td>
<td>Gas Technician II (Part C)</td>
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<tr>
<td>HVAC2006</td>
<td>Air Conditioning Laboratory Applications</td>
</tr>
<tr>
<td>HVAC2013</td>
<td>HVAC Computer Applications</td>
</tr>
<tr>
<td>COMM1113</td>
<td>Professional Communications for Building Technologies</td>
</tr>
<tr>
<td>GNED</td>
<td>General Education Elective</td>
</tr>
</tbody>
</table>

CAREER OPTIONS

Successful graduates of this diploma program are prepared for a range of positions in the HVAC field. Technicians install, maintain, and repair heating, air conditioning and refrigeration systems for commercial and residential buildings.

Students will also have sufficient training to challenge the Gas Fitter 2 provincial qualification exam** and if successful (75% passing grade) obtain the Gas Fitter 2 certification.

As well, for the course Building Code for HVAC (HVAC 2014) delivered in semester 3, we assist students in preparing to challenge the Ontario Ministry of Consumer Affairs and Housing, HVAC House exam.* Individuals who are successful (75% passing grade) can use this qualification towards obtaining their “Building Code Identification Number” (BCIN)**.

*Please note that in addition to passing the HVAC House exam, there are further requirements to qualify for a Building Code Identification Number. For more information on the Building Code Identification Number, please visit the Ontario Building Code website3.

**The above mentioned qualification exams are administered by the Province of Ontario. George Brown College is not responsible for the administration and/or marking of these exams.

YOUR CAREER

Successful graduates of this diploma program are prepared for a range of positions in the HVAC field. Technicians install, maintain, and repair heating, air conditioning and refrigeration systems for commercial and residential buildings.

Other employment opportunities for technicians include sales, system balancing and cost estimating for projects. Experienced technicians may also explore self-employment in the gas heating industry after obtaining a Gas Fitter 2 certification.

FUTURE STUDY OPTIONS

Graduates of this program are eligible to transfer with advanced standing into Semester 5 of the three-year Heating, Refrigeration and Air Conditioning Technology advanced diploma program (T162).4

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\(^5\) for English and Math, OR may consider upgrading to achieve the credit(s) needed in English\(^6\) and Math\(^7\).

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**COURSE EXEMPTIONS**

College or university credits may qualify you for course exemptions. Please visit georgebrown.ca/transferguide for more information.

**INTERNATIONAL STUDENTS**

Visit the International Admissions\(^8\) page for more information.

**APPLY TO**

Domestic students should apply through Ontario Colleges\(^9\)

**CONTACT US**

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**LINKS REFERENCE**

2. https://www.georgebrown.ca/international/futurestudents/tuitionfees/
5. https://www.georgebrown.ca/assessment/admi-pre/
7. https://www.georgebrown.ca/upgrading-credits/math-diploma/
8. https://www.georgebrown.ca/international/futurestudents/howtoapply/
10. https://www.georgebrown.ca/tours_technology/
HEATING, REFRIGERATION AND AIR CONDITIONING TECHNOLOGY PROGRAM (T162)

<table>
<thead>
<tr>
<th>PROGRAM NAME</th>
<th>Heating, Refrigeration, and Air Conditioning Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>COURSE CODE</td>
<td>T162</td>
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<tr>
<td>SCHOOL</td>
<td>School of Apprenticeship and Skilled Trades</td>
</tr>
<tr>
<td>CENTRE</td>
<td>Construction Engineering Technology</td>
</tr>
<tr>
<td>LOCATION</td>
<td>Casa Loma Campus</td>
</tr>
<tr>
<td>DURATION</td>
<td>3 years (6 semesters)</td>
</tr>
<tr>
<td>STARTING MONTH</td>
<td>September, January</td>
</tr>
<tr>
<td>CREDENTIAL</td>
<td>Ontario College Advanced Diploma</td>
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<tr>
<td>YEAR OF STUDY</td>
<td>2020-2021</td>
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<td>METHOD OF STUDY</td>
<td>FT</td>
</tr>
<tr>
<td>APPLY TO</td>
<td>Ontario Colleges</td>
</tr>
</tbody>
</table>

**TUITION**

$3,774.00 *

**ADDITIONAL COST**

* Amounts listed are the total of tuition, materials, student service and ancillary fees for the first two semesters of programs starting in Fall 2019. Fees are subject to change for programs starting in Fall 2020 and at later dates.

**INTERNATIONAL STUDENTS:** Visit the International Fees and Related Costs page for more information.

**FINANCIAL ASSISTANCE**

This program is approved for OSAP funding, provided the applicant meets OSAP eligibility criteria.

Rising fuel costs, indoor air quality and climate change are all factors in raising awareness of the true cost of energy, and the need for energy-efficient building environmental system design, construction and maintenance.

This program has been developed to address the current and future needs of the heating, ventilation, air conditioning and refrigeration (HVAC/R) industry. In the first two years you will study residential and some light commercial systems. In the third year there is an additional focus on commercial systems.

You will develop a firm understanding of the factors involved in designing, building, controlling and maintaining energy-efficient building environmental systems for a wide variety of requirements.

The program covers the basics of air system and hydronic (water) system theory, required to design distribution systems and select appropriate fans, pumps, heating and cooling plants, and system controls for larger buildings.

The program follows industry-standard design practices for environmentally responsible and energy-efficient residential, commercial and industrial systems, as established by the Heating, Refrigeration and Air Conditioning Institute (HRAI), the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) and the Canada Green Building Council.

**PART TIME STUDY OPTIONS**

Part-time study options are not available for this program; however, our Continuing Education department offers evening courses and part-time certificate programs in Building/Construction Technologies. See coned.georgebrown.ca

**PROGRAM STANDARDS AND LEARNING OUTCOMES**

The graduate has reliably demonstrated the ability to:

1. Relate effectively to heating, ventilation, air conditioning and refrigeration supervisors, coworkers and customers.
2. Comply with applicable acts, regulations, legislation, and codes to maintain personal and public safety.
3. Solve scientific, mathematical, and engineering problems related to designing, operating, and installing energy systems for commercial and industrial complexes.
4. Prepare and analyze detailed drawings, and compile technical specifications for energy systems.
5. Design, operate, and install energy systems for commercial and industrial complexes.
6. Develop strategies for ongoing personal and professional development that lead to enhanced work performance and career opportunities, and keep pace with industry changes.
### REQUIRED COURSES

#### SEMESTER 1

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
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<td>HVAC1016</td>
<td>Gas Technician II (Part A)</td>
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<td>HVAC1022</td>
<td>Understanding Construction Drawings</td>
</tr>
<tr>
<td>HVAC2003</td>
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<td>Mathematics for Building Technologies 2</td>
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#### SEMESTER 4

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<th>Code</th>
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<tr>
<td>HVAC1021</td>
<td>Gas Technician II (Part C)</td>
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<td>HVAC2006</td>
<td>Air Conditioning Laboratory Applications</td>
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<td>HVAC2013</td>
<td>HVAC Computer Applications</td>
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#### SEMESTER 5

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<th>Code</th>
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<tbody>
<tr>
<td>HVAC3010</td>
<td>Commercial Load Estimating</td>
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<tr>
<td>HVAC3011</td>
<td>Air Distribution Design</td>
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<td>HVAC3012</td>
<td>Hydronic System Design</td>
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<tr>
<td>HVAC3020</td>
<td>Quantity Surveying</td>
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<td>BLDG3052</td>
<td>Construction Business Management</td>
</tr>
<tr>
<td>CADE3012</td>
<td>AutoCAD I</td>
</tr>
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</table>

#### SEMESTER 6

<table>
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<th>Code</th>
<th>Course Name</th>
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<tr>
<td>HVAC3013</td>
<td>AutoCAD for HVAC</td>
</tr>
<tr>
<td>HVAC3014</td>
<td>Building Environment Systems Control Laboratory</td>
</tr>
<tr>
<td>HVAC3015</td>
<td>Commercial Refrigeration System Design</td>
</tr>
<tr>
<td>HVAC3016</td>
<td>Commercial/Industrial Ventilation System Design</td>
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<td>HVAC3017</td>
<td>Mechanical Systems Estimating</td>
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<tr>
<td>BLDG2022</td>
<td>Law and Construction Contracts</td>
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</tbody>
</table>

#### CAREER OPTIONS

On successful completion of this program, students will have sufficient training to challenge the Gas Fitter 2 provincial qualification exam** and if successful (75% passing grade) obtain the Gas Fitter 2 certification.

As well, in the Building Code for HVAC (HVAC 2014) course delivered in Semester 3, we assist students in preparing to challenge the Ontario Ministry of Consumer Affairs and Housing HVAC House exam.* Individuals who are successful (75% passing grade) can use this qualification towards obtaining their Building Code Identification Number (BCIN)**.

*Please note that in addition to passing the HVAC House exam, there are further requirements to qualify for a Building Code Identification Number. For more information on the Building Code Identification Number, please visit the Ontario Building Code website³.

** The above mentioned qualification exams are administered by the Province of Ontario. George Brown College is not responsible for the administration and/or marking of these exams.

#### YOUR CAREER

Successful graduates of this advanced diploma program may find employment opportunities in a broad range of disciplines within the industry, including:

- Consulting engineering and architectural firms
- Design/build contractors
- School boards
- Commercial refrigeration installation and maintenance companies
- Building automation and control companies
- Building maintenance
- HVAC/R manufacturing, sales and distribution companies

Graduates may also pursue management careers in the mechanical sector of the construction industry or opt to become self-employed specialty contractors.

#### 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)

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COURSE EXEMPTIONS

College or university credits may qualify you for course exemptions. Please visit georgebrown.ca/transferguide for more information.

INTERNATIONAL STUDENTS

Visit the International Admissions⁷ page for more information.

APPLY TO

Domestic students should apply through Ontario Colleges⁸

CONTACT US

School of Apprenticeship and Skilled Trades
Phone: 416-415-5000, ext. 6711
Email: 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.

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Sign up for an Information Session⁹.

LINKS REFERENCE

¹https://collegeapply.ontariocolleges.ca/?collegeCode=GBTC&programCode=T162&lang=en
²https://www.georgebrown.ca/international/futurestudents/tuitionfees/
³http://www.mah.gov.on.ca/Page7393.aspx
⁴https://www.georgebrown.ca/assessment/admi-pre/
⁵https://www.georgebrown.ca/upgrading-credits/english-diploma/
⁶https://www.georgebrown.ca/upgrading-credits/math-diploma/
⁷https://www.georgebrown.ca/international/futurestudents/howtoapply/
⁹https://www.georgebrown.ca/tours_technology/

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The Plumbing Techniques program covers 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

<table>
<thead>
<tr>
<th>Code</th>
<th>Course name</th>
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<tbody>
<tr>
<td>BLDG1112</td>
<td>Plumbing Trade Theory</td>
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<td>Plumbing Trade Shop</td>
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<tr>
<td>BLDG1114</td>
<td>Trade Documentation</td>
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<td>BLDG1110</td>
<td>Welding Trade Theory</td>
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<td>Welding Trade Shop</td>
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<td>COMM1007</td>
<td>College English</td>
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SEMESTER 2

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>BLDG1115</td>
<td>Safety, Hoisting and Rigging</td>
</tr>
<tr>
<td>BLDG1116</td>
<td>Plumbing Theory</td>
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<tr>
<td>BLDG1117</td>
<td>Plumbing Practical Techniques</td>
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<td>BLDG1118</td>
<td>Plumbing Math</td>
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<tr>
<td>BLDG1119</td>
<td>Blueprints and Graphic Communication</td>
</tr>
<tr>
<td>GNED</td>
<td>General Education Elective</td>
</tr>
</tbody>
</table>

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)

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COURSE EXEMPTIONS

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INTERNATIONAL STUDENTS

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LINKS REFERENCE

1https://collegeapply.ontariocolleges.ca/?collegeCode=GBTC&programCode=T165&lang=en
2https://www.georgebrown.ca/international/futurestudents/tuitionfees/
3https://www.georgebrown.ca/assessment/admi-pre/
4https://www.georgebrown.ca/upgrading-credits/english-diploma/
5https://www.georgebrown.ca/upgrading-credits/math-diploma/
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Employment opportunities in the Welding trade span several industries including transportation, petro chemical, oil and gas, aerospace, fabrication, manufacturing, pipelines, mining and construction.

George Brown’s Welding Techniques program prepares students with practical, hands-on experience that applies the technical theory and elements of the welding field. Students articulate their technical and essential employability skills through an e-portfolio, based on skill development throughout the program.

At the end of this intense, two-semester program, students will have the opportunity to challenge the shielded metal arc weld test, in accordance with CSA W47.1/W59 standards, in a position(s) of their choosing through the Canadian Welders Bureau. (This test will be voluntary and at an extra cost to the student.)

This experiential program will provide you the skills to master five of the most common types of welding processes:

1. **Shielded Metal Arc Welding (SMAW):** This process uses a consumable electrode covered with flux. It is the primary type of welding used in the maintenance and repair industry. Arc welding is usually used to weld iron and steel, although it can also be used for alloys (aluminum, nickel, etc.).

2. **Gas Metal Arc Welding (GMAW):** This welding process uses electricity to melt and join pieces of metal together. It is generally regarded as one of the easiest types of welding to learn. It is also called Gas Metal Arc Welding (GMAW). It can be used to weld a variety of metals such as carbon steel, stainless steel, aluminum, magnesium, copper, bronze, etc.

3. **Gas Tungsten Arc Welding (GTAW):** The process uses a non-consumable tungsten electrode that delivers the current to the welding arc. The tungsten and weld puddle are protected and cooled with an inert gas, typically argon or helium. It is most commonly used for welding stainless steel and non-ferrous metals like aluminum, magnesium and copper alloys.

4. **Plasma Arc and Oxyfuel Cutting:** This process utilizes an electrode and compressed gas, forced at high speeds through a nozzle, usually copper, to cut metal, primarily mild steel, stainless steel and aluminum. Oxyfuel cutting uses fuel gases combined with oxygen to cut metals, usually steel.

5. **Fabrication:** Metal fabrication is the building of metal structures by cutting, bending, and assembling processes. It is a value added process that involves the construction of machines and structures from various raw materials.

**THE INDUSTRY**

Welding is a high demand trade, one that is critical for the success of many major development projects in every province across the country. Employment opportunities span several industries including:

- Transportation
- Petrochemical
- Oil and Gas
- Aerospace
- Fabrication
- Manufacturing
The Bureau of Labour Statistics paints a very bright future for welding careers in Ontario. Between 2010 and 2025, the industry is expected to see around 15 percent growth, which is higher than the rate of growth for most other occupations. Welding positions are going to be incredibly important to both the provincial and national economy over the course of the next decade.

PROGRAM STANDARDS AND LEARNING OUTCOMES

The graduate has reliably demonstrated the ability to:

1. Perform work responsibly and in compliance with the Occupational Health and Safety Act and industry processes and procedures, including demonstrating learned knowledge of WHMIS.
2. Interpret engineering drawings and blueprints to produce basic graphics and welding projects as required by industry.
3. Select, plan, and demonstrate sustainable metal fabrication operations using industrial metal fabrication machinery and emerging technologies.
4. Perform basic technical measurements and welding functions accurately, using appropriate equipment and welding techniques.
5. Create welds on various types of materials and joints in the major welding positions to industrial standards and codes.
6. Use shop tools and equipment to manufacture, assemble, maintain and repair components according to required specifications and industry standards.
7. Interact effectively and professionally in shop environments, both independently and with fellow workers and other tradespeople.
8. Assess weld quality and implement corrective action where required to follow quality control and quality assurance procedures and meet organizational standards and requirements.
9. Create a professional development plan that addresses one's strengths and areas for growth in the greater context of the welder profession.

REQUIRED COURSES

SEASON 1

<table>
<thead>
<tr>
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<tr>
<td>WELD1010</td>
<td>Blueprint Reading and Production for Welders</td>
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<tr>
<td>WELD1011</td>
<td>Mathematics for Welders</td>
</tr>
<tr>
<td>WELD1012</td>
<td>Shielded Metal Arc Welding I</td>
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<tr>
<td>WELD1013</td>
<td>Gas Metal Arc Welding I</td>
</tr>
<tr>
<td>WELD1014</td>
<td>Bronze Welding, Oxyfuel Cutting and Plasma Arc Cutting</td>
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<td>WELD1015</td>
<td>Metallurgy for Welders I</td>
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<tr>
<td>WELD1113</td>
<td>Gas Metal Arc Welding II</td>
</tr>
<tr>
<td>WELD1114</td>
<td>Gas Tungsten Welding</td>
</tr>
<tr>
<td>WELD1115</td>
<td>Metallurgy for Welders II</td>
</tr>
<tr>
<td>WELD1116</td>
<td>Fabrication</td>
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<tr>
<td>WELD1117</td>
<td>Portfolio</td>
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<td>WELD1118</td>
<td>CAD for Welders</td>
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YOUR CAREER

Graduates of the program bring a wide range of welding skills to future employers. This program increases your marketability and knowledge of the welding trade and provides a good understanding of the safety practices relevant to the work performed. Welders are always going to be in demand in the manufacturing industry of Ontario because of how important they are to the manufacturing process. Most of the basic welding skills are the same across all industries, so welders are able to shift from one industry to the next – meaning that there is always a constant supply of work.

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Tom Tomassi, Program Coordinator
School of Apprenticeship and Skilled Trades
Email: ttomassi@georgebrown.ca
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