

The City of Barrie in partnership with Georgian College, funded by the Government of Ontario, is proud to offer the **RapidSkills Program**.

# RAPIDSKILLS

## MICRO-CREDENTIALS

Supporting workers in a changing economy.



Examine fundamental shop skills and learn to perform critical functions  
(30 hours)



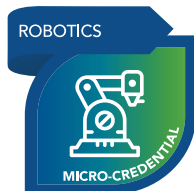
Manufacture components using engineering drawings and traditional industrial machines  
(90 hours)



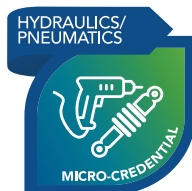
Explore CNC fundamentals using industry-grade tools and equipment in manufacturing  
(90 hours)



Explore the fundamentals of modern automation  
(96 hours)



Explore industrial robotic motion, control and troubleshooting  
(96 hours)



Explore fluid-power components and circuits  
(60 hours)



Explore the foundations, tools, techniques and processes of quality management  
(90 hours)



Enhance your management skills in manufacturing  
(30 hours)

**RapidSkills consists of eight micro-credentials**, which are short-term, competency-based, industry-recognized certifications. It aims to prepare underused and underemployed workers, workers at risk of job loss, and unemployed individuals for careers in the auto and advanced manufacturing sectors, while providing employers with highly skilled and agile workers.

**Delivery: Part-time, online and on campus**  
**Location: Barrie Campus**

RapidSkills program **tuition and training costs are FREE** for eligible participants and employers.



**FOR MORE INFORMATION:**  
Melissa Marshall | 249.388.1377  
rapidskills@georgiancollege.ca  
[GeorgianCollege.ca/rapidskills](http://GeorgianCollege.ca/rapidskills)



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# RAPIDSKILLS

## Industrial Automation | MICRO-CREDENTIAL

Explore the fundamentals of modern automation.

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### Overview:

- Three-module, 96-hour micro-credential
- Explore the fundamentals of modern automation, progressively learning more advanced control techniques and technology
- Gain an understanding of how devices such as sensors, cylinders, and valves are integrated and controlled by a PLC

### Tuesdays, 8 a.m. to noon | Barrie Campus | 15 days

Module 1: Sept. 6, 13, 20, 27 and Oct. 4, 2022

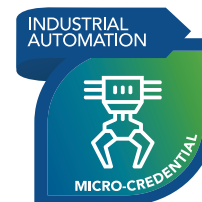
Module 2: Oct. 11, 18, 25 and Nov. 1, 8, 2022

Module 3: Nov. 15, 22, 29 and Dec. 6, 13, 2022

60 hours in class

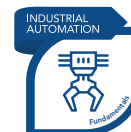
36 hours online (asynchronous self-study at approximately 2.5 hours per week)

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A digital badge will be awarded for the completion of the module.

### Micro-credential modules



Learn the fundamentals of pneumatic and electro pneumatic controls.



Expand knowledge of industrial inputs and outputs, learning functional design, hardware configuration, programming, and Programmable Logic Controller (PLC) application.



Increase knowledge of PLCs by learning new hardware and programming tools.



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# RAPIDSKILLS

## Hydraulics and Pneumatics | MICRO-CREDENTIAL

Explore fluid-power components and circuits.

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### Overview:

- Two-module, 60-hour micro-credential
- Explore fluid mechanics theory and practical lab exercises, reinforcing understanding of fluid power components and circuits
- Gain knowledge to undertake failure analysis diagnostics and execute basic repairs

### Thursdays, 9 a.m. to noon | Barrie Campus | 10 days

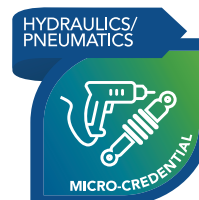
Module 1: Oct. 6, 13, 20, 27 and Nov. 3, 2022

Module 2: Nov. 10, 17, 24 and Dec. 1, 8, 2022

30 hours in class

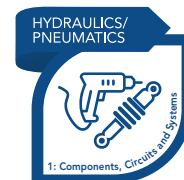
30 hours online (asynchronous, three hours per week)

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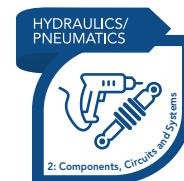


A digital badge will be awarded for the completion of the module.

### Micro-credential modules



Learn about fundamental fluid mechanics and the application of fluid power components and systems.



Expand knowledge of fundamental fluid mechanics and the application of fluid power components and systems.



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# RAPIDSKILLS

## Precision Machining | MICRO-CREDENTIAL

Manufacture components using engineering drawings and traditional industrial machines.

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### Overview:

- Three-module, 90-hour micro-credential
- Learn to read engineering drawings and build and manufacture components using hand, bench, and layout tools and conventional machines, including vertical milling machines, CNC machines, surface grinders, and lathes
- Safety is a primary concern

### Saturdays, 8 a.m. to 4 p.m. | Barrie Campus | 12 days

Module 1: Aug. 27 and Sept. 10, 17, 2022

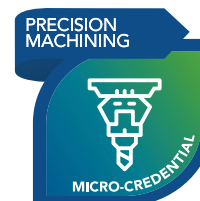
Module 2: Oct. 29 and Nov. 5, 12, 19, 2022

Module 3: Jan. 7, 14, 21, 28 and Feb. 4, 2023

Prerequisite: Fundamental Shop Skills

Students taking both Precision Machining and CNC will alternate between modules. They will take module 1 of Precision Machining then module 1 of CNC (or vice versa), then move on to the second module for both.

RapidSkills program **tuition and training costs are FREE** for eligible participants and employers.

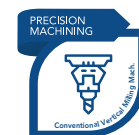


A digital badge will be awarded for the completion of the module.

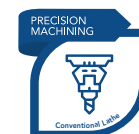
### Micro-credential modules



Learn to read engineering drawings and lay out the workpiece according to specified tolerances.



Learn to operate a vertical milling machine safely and use tooling along with digital read outs to set axis coordinates.



Learn to set up and operate conventional metal cutting lathes safely, cut unified national fine and coarse threads, and build projects.



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# RAPIDSKILLS

## Robotics | MICRO-CREDENTIAL

Explore industrial robotic motion, control and troubleshooting.

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### Overview:

- Three-module, 96-hour micro-credential
- Learn about robotic motion, robot programming, and integration with a PLC
- Focus on industrial robotic safety measures

**Tuesdays, 8 a.m. to noon | Barrie Campus | 13 days**

Module 1: Jan. 3, 10, 17, 24, 31, 2023

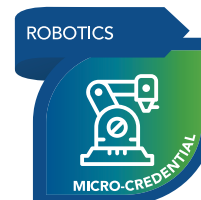
Module 2: Feb. 7, 14, 21, 28, 2023

Module 3: Mar. 7, 14, 21, 28, 2023

52 hours in class

44 hours online (asynchronous, three to four hours per week)

RapidSkills program **tuition and training costs are FREE** for eligible participants and employers.



A digital badge will be awarded for the completion of the module.

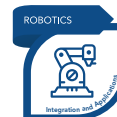
### Micro-credential modules



Learn basic robotic programming, mechanical design of industrial robots, and tools used for applications.



Learn advanced programming and hardware concepts, program multiple robots to work together with other automation systems, and further robot safety procedures and program organization understanding.



Learn industry robot types, how robots and PLCs integrate together and with manufacturing facilities, cost justification, and how to design and troubleshoot programs.



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