

**GREAT THINGS**

**HAPPEN HERE**



# Advanced Manufacturing, Design and Management

One Year – Ontario College Graduate Certificate

**Your Experience: Learn hands-on in this in-demand career field.**

Canada is facing a critical skills shortage. Skilled workers and leaders are in high demand in the manufacturing sector. This rapidly evolving industry is increasingly relying on the use of technology, automation and robotics. Gain skills and knowledge in manufacturing technologies, digital manufacturing, and advanced computer assisted design tools and techniques that are used by industry. This program will prepare you to launch your career in advanced manufacturing locally, across Canada or in the global market.



**Program Contact**

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# Advanced Manufacturing, Design and Management

## One Year – Ontario College Graduate Certificate

Program Code: 000000 Type: Full-Time/Part-Time Intake: Fall 2025 Campus: Commerce Court, North Bay

### Your Future Career

- Manufacturing management
- Mechanical engineering
- Industrial manufacturing
- Automotive industry
- Minerals and forestry sectors
- Mining supply and services

### What You Learn

- Computer aided CNC programming
- Lean manufacturing management
- Computer-aided engineering
- Additive manufacturing automation
- Robotics for manufacturing automation
- Manufacturing systems management

### Admissions Requirements

Ontario College Diploma, Ontario College Advanced Diploma, Degree, or equivalent in Science, Environmental, Industrial, Manufacturing, Mechanical Engineering, or related field of study

### Certification/Accreditation

Ontario College Graduate Certificate

### Curriculum

#### Semester 1

AMD100	Computer Programming
AMD110	Computer Aided Modelling
AMD120	CNC Programming
AMD130	Design of Experiments
AMD140	Operations Research
AMD150	Introduction to Industry 4.0
CLT100	First Peoples of Canada

#### Semester 2

AMD200	Computer Aided Engineering
AMD210	Additive Manufacturing
AMD220	Robotics and Automation
AMD230	Manufacturing Systems Management
AMD240	Quality Management
AMD250	Engineering Economics
AMD251	Advanced Manufacturing Capstone

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