



INSTITUTE OF MACHINE TOOL TECHNOLOGY

SOLIDWORKS TRAINING

PROGRAM OUTLINE

PROGRAM DETAILS

The **SOLIDWORKS Certificate Program** at the **Institute of Machine Tool Technology (IMTT)** provides students with the technical knowledge needed to succeed **in the field of computer-aided design**. This career-focused program covers essential topics including **Part Modelling, Assembly Design, Sheet Metal Creation, and Surface Modelling**. Students develop the skills required to design, assemble, and simulate complex 3D projects using SOLIDWORKS software. Whether entering the workforce or upgrading existing skills, this program equips you with the tools employers look for in today's competitive engineering and manufacturing industry.

ADMISSION REQUIREMENTS

- Grade 12, Diploma or equivalent GED
- Minimum 18 years or older
- English Language Proficiency

Note: For the most accurate and up-to-date admission requirements, we recommend contacting our institute directly or visiting our website.

EMPLOYMENT PROFILE

SOLIDWORKS-trained professionals play a vital role in modern design and manufacturing across various design and manufacturing industries. Combining creative design with technical precision, they interpret project specifications **to develop 3D models, assemblies, and detailed drawings**. Key tasks include **creating accurate documentation and collaborating with engineers to ensure manufacturable designs that meet quality and safety standards**. They update design files, and incorporate revisions as needed. In addition, they support simulation or mold-making processes. With strong CAD skills, these professionals deliver the expertise employers value in today's competitive product development environment.

CAREER OPPORTUNITIES

Graduates may explore entry-level positions like CAD Drafter or Mechanical Designer, and the program also provides a strong upskilling pathway for professionals:

- **CAD Designer / Drafter**
- **Mechanical Design Technician**
- **Sheet-Metal Designer**
- **Product Designer**
- **Assistant Design Engineer**
- **Junior Manufacturing Technologist**

Annual Salary	\$41k - \$75k
Hourly Rate	\$20/hr - \$36/hr

**According to jobbank.gc.ca (NOC code 22302)*

PROGRAM DURATION

Level 1	39 Hours
Level 2	39 Hours

PROGRAM FOCUS

The **SOLIDWORKS Certificate Program** at the **Institute of Machine Tool Technology (IMTT)** is designed to equip students with comprehensive **design skills** and **CAD knowledge** required to succeed in today's **competitive engineering and manufacturing environment**.

Here are the program's core focus areas:

- Part Modeling
- Assembly Modeling
- Sheet Metal Design
- Surface Modeling
- Mold Design
- Photo-Works Rendering
- Blueprint and Technical Drawing Interpretation
- Motion Study (animations)

Gain valuable experience through **projects** and **hands-on CAD training** in the **SOLIDWORKS Certificate Program** at **IMTT**, preparing you for success in a variety of **design, engineering, and manufacturing roles** with confidence and professionalism.

PROGRAM SUMMARY

This table will display a summary of total Instructional hours and delivery format. The Ministry, Career College, and any subject or education assessors may refer to this section for a general understanding of the program's components.

Type of Learning	Total Instruction Hours	Mode of Delivery
Level 1	39	Online
Level 2	39	Online

List of subjects for each level and delivery format:

Level 1	
Delivery Format - Online	
1	Introduction & Setup
2	Sketching & 3D Sketching
3	Features & Evaluation Tools
4	Assembly Modeling
5	Drawings
Level 2	
Delivery Format - Online	
1	Weldments
2	Sheet Metal
3	Configurations
4	Equations & Global Variables
5	Gears
6	Surface Modeling
7	Basic Motion Study

**The course content may be changed as per industry standards*

Please Note:

- a)** Course order may differ from the sequence shown in this outline.
- b)** Program fees include all textbooks, supplies, and required certifications.
- c)** Some program components may be delivered online, through computer-assisted learning, or a blended format with instructor support.
- d)** The College may update program content, schedules, materials, instructors, or technology as needed to support ongoing improvement. Changes take effect upon implementation.

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