


ONE in 10 Canadians are employed in Manufacturing

\$1.84 BILLION Canada's weekly salaries from Manufacturing

 Expected positive growth in the next three to five years



Labour shortages exist and are expected to worsen in the following occupations:

- Sales and Marketing
- Skilled Production
- General Management
- Engineering

Source: Canadian Manufacturers & Exporters: Canada's Labour Market: A Reality Check for Canadian Industry & Government December, 2012



HOW DO I REGISTER?

- No prerequisite is required to enroll
- Students can obtain an application in the Guidance office.

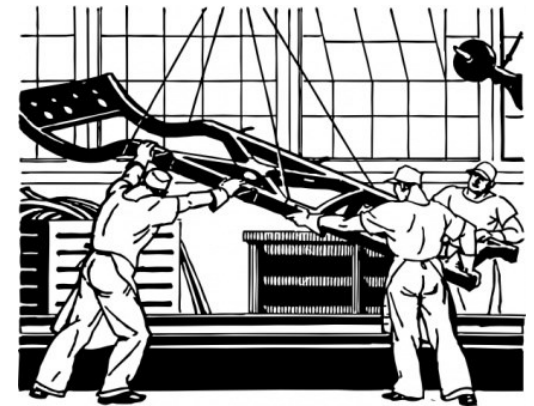
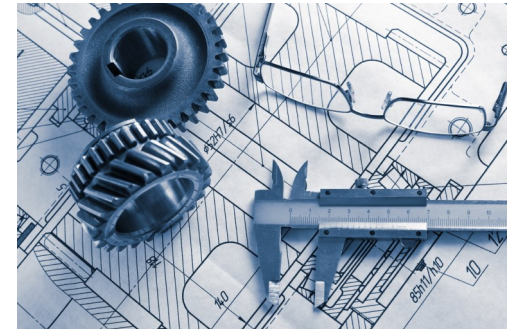
Why Manufacturing?

- Toronto is one of Canada's largest manufacturing centers
- Over 340,000 workers are employed in the manufacturing sector in Toronto
- Employment growth in the manufacturing related sectors in recent years are: Manufacturing 27%, Engineering 26% and Computer 16%

The SHSM Manufacturing Program will give students the opportunity to explore the Manufacturing sector with links to other trades. Students will build and develop career goals as well as the requisite knowledge and skills to pursue post-secondary study and/or training in the sector. This program will provide students with school and workplace experiences such as: workplace visits, sector speakers, certificates, training, and co-op placements.

Careers in the Manufacturing Sector:

- Machinist
- Tool and Die Maker
- Welder
- Engineer (Chemical, Electrical, Production, Mechanical, Robotic,)
- Sheet metal fabricator
- Automation Engineer
- Mould Maker
- Millwright
- Electrician
- Architect
- Manufacturing Management
- Precision Machinist
- Motor Vehicle Assembler



BIRCHMOUNT PARK COLLEGIATE
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Toronto, M1N 2G2
416 396 6704
schools.tdsb.on.ca/birchmount/

REQUIRED COMPONENTS OF THE SHSM- MANUFACTURING

1

A bundle of 9 grade 11 & 12 courses:

- 4 major credits (minimum 1 in Technological Studies)
- 2 English
- 1 Senior Math and Science or Business
- 2 co-op credits in the sector

2

Experiential Learning & Career Exploration
Activities gained through co-op placements, guest speakers and field trips.

3

Reach Ahead Experiences that connect SHSM students to their post-secondary plans –e.g. tours of post-secondary institutions and industry visits.

4

Six sector recognized certifications and training. These can include:

- CPR—Level C & A.E.D.
- WHIMIS
- Standard First Aid
- Welding—Level 1 Flat
- Elevated Platform Training
- Hoisting and Rigging Certification
- Software training Certification
- Electrical Safety Certification
- Handling dangerous substances Certification

CREDIT REQUIREMENTS	Apprenticeship		College		University		Workplace	
	Grade 11	Grade 12	Grade 11	Grade 12	Grade 11	Grade 12	Grade 11	Grade 12
MAJOR CREDITS 4 Credits in total* All students must include at least one Technology course (T-coded courses) *Usually two in each grade	TMJ3C TTJ3C TCJ3C TMJ3E TTJ3O TTJ3E	TMJ4C TTJ4C TCJ4C TMJ4E TTJ4O TTJ4E	TMJ3C TDJ3M TTJ3C TCJ3C TEJ3M	TMJ4C TDJ4M TTJ4C TCJ4C TEJ4M	TMJ3M ICS3U SCH3U SPH3U TMJ3C TDJ3M TEJ3M	TMJ4M ICS4U SCH4U SPH4U TMJ4C TDJ4M TEJ4M	TMJ3E TTJ3O TTJ3E	TMJ4E TTJ4O TTJ4E
English 1 credit per year	ENG3C ENG3E	ENG4C ENG4E	ENG3C	ENG4C	ENG3U	ENG4U	ENG3C ENG3E	ENG4C ENG4E
Math 1 senior credit	MBF3C	MAP4C	MBF3C MCF3M	MAP4C	MCF3M MCR3U	MHF4U MDM4U MCV4U	MEL3E	MEL4E
Science OR Business 1 senior credit	BDI3C SBI3C	SCH4C	BDI3C SBI3C	SCH4C	BAF3M SCH3U SPH3U	BAT4M BOH4M SCH4U SPH4U		OLC4O SNC4E
Cooperative Education	Students must take a minimum of 2 credit Co-Op.							

SHSM Graduates earn a Red Seal Diploma. Employers and post-secondary institutions recognize this as a specialized, career-focused program.

