

SPECIALIST HIGH SKILLS MAJOR



Ontario.ca/SHSM

# Milton District High School Engineering, Manufacturing & Robotics

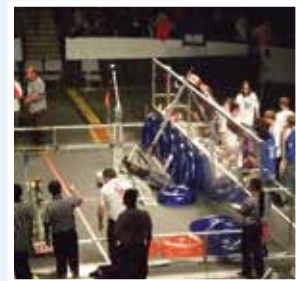
## Program Overview:

The SHSM manufacturing program offers students the opportunity to explore the many disciplines associated with manufacturing.

## Students Will:

- be exposed to skilled trades and professional areas such as engineering, technologist, millwright, machinist, tool and die, and welder.
- gain an appreciation and understanding for craftsmanship, design, blueprint reading, proper communication and the importance of working to close tolerances.
- have the opportunity to create unique projects by working to blueprints and specifications.
- hone their skills as well as improve their team building skills with student-centered problem solving opportunities.
- have the opportunity to work in a sector-related environment through the coop component of the program in order to gain new insights to potential future career paths (and make some money at the same time!).

Our experienced staff will provide training by covering topics including design, computer assisted design, precision measurement and layout, hand tools, machine tools (lathe, milling machine, drill press, surface grinder, pedestal grinder, band saw) as well as welding and fitting.



# PATHWAYS

## Course Package:

Students can continue onto all potential destinations through this program - apprenticeship, college, university and the workplace. The program for students will consist of:

- 2 Grade 11 and 2 Grade 12 manufacturing credits
- 1 Physics credit (depending on exit destination)
- 1 - 2 english credits (depending on exit destination)
- 1 Math credit
- 2 Coop credits

## Who would be interested in the program?

This program meets the needs for all destinations. Students planning for apprenticeship, college, university or the workplace will find that there is something here for them.

- Students who would thrive in 'a hands on program' that also explores theoretical aspects and answers many of the 'why' type questions.
- Students who thrive when they can see the integration of math and science and technology by applying the theory in the shop.
- Students who are interested in working with their hands designing, troubleshooting, manufacturing and assembling.
- Students who enjoy working as a team and finding relevance to math and physics by applying knowledge and skills in a real world problem solving situation would benefit greatly from this course.
- Hobbies such as RC racing, artistic design, and graphics would signal an interest in this delivery model.

No prerequisites are required to enter the program.

Interested candidates must apply and be interviewed prior to being accepted.

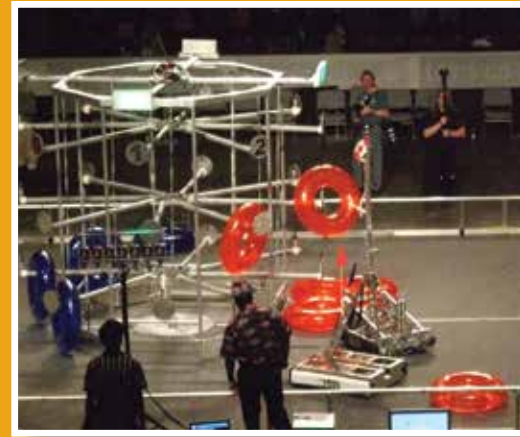
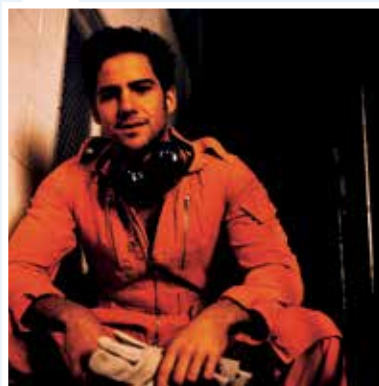
## Program Delivery:

Students accepted to the program will attend Milton District High School for periods 1 and 2, with a choice to complete the day's studies at Milton District or return to his/her home school. this allows for students to participate in sports or other extra curricular activities.

## Application Details and Contact information:

Students can obtain an application in his/her guidance office!

For more information on the SHSM Manufacturing program, visit [www.haltonpathways.ca](http://www.haltonpathways.ca). To register for the program, go to [www.myblueprint.ca/halton](http://www.myblueprint.ca/halton) or visit your school to career guidance counselor.



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