



Earl's MANUFACTURING Specialist High Skills Major

What is it?

EOM's Manufacturing Specialist High Skills Major (Manufacturing SHSM) is a group of credits, a Co-op opportunity in industry, and specialized training providing a **Provincial seal and listing of certificates on your diploma**. **A mark of distinction recognized by universities, colleges, and industry!**

Students interested in our **First Robotics team (FRC)** or our **Electric Vehicle team** are strongly encouraged to join!

Better preparation for your future career!



You can find more information here:

[Specialist High Skills Major - Ottawa-Carleton District School Board](#)

[SHSM Policy and Implementation Guide – Manufacturing](#)

How do I get it?

You need a **bundle of (9) credits** in grades **11 and 12**, as follows:

SHSM Major Subjects* - you need 4 credits from here TMJ 3M and TMJ 4M are required		ENGLISH - you need 1 credit from here (2 for Workplace pathway)	
Grade 11	Grade 12	Grade 11	Grade 12
TMJ 3M TDJ 3M TEJ 3M TGJ 3M ICS 3U SCH 3U SPH 3U	TMJ 4M TDJ 4M TEJ 4M TGJ 4M ICS 4U SCH 4U SCH 4C SPH 4U SPH 4C	NBE 3U NBE 3C OLC 30	ENG 4U ENG 4C OLC 40

MATH - you need 1 credit in either grade 11 or 12		SCIENCE* - you need 1 credit in either grade 11 or 12	
Grade 11	Grade 12	Grade 11	Grade 12
MCR 3U MCF 3M MBF 3C MEL 3E	MCV 4U MDM 4U MHF 4U MAP 4C MCT 4C MEL 4E	SPH 3U SCH 3U SBI 3U SBI 3C ICS 3U OLC 30	SBI 4U SCH 4U SCH 4C SPH 4U SPH 4C SES 4U ICS 4U OLC 40

Your future in Engineering & Technology starts here!

CO-OPERATIVE EDUCATION* - 2 credits in a manufacturing-related placement
(eg. R&D engineering firm, IT company doing product development, local circuit board manufacturer, welding facility, tool manufacturer, etc.)

Cooperative Education credits can be completed in either the regular school year **or during the summer, even after Grade 10!**

Please note that grade 10 students must ensure their Coop credits are linked to their **Careers GLC20** course.

* Students can substitute a **3rd CO-OP** credit in place of any of the **SHSM Major Subjects** (except TMJ 3M & TMJ 4M which are mandatory) or in place of the **SCIENCE** credit. **Workplace** pathway students **do not need a SCIENCE** credit but do require 2 senior **ENGLISH** credits (**FYI** this pathway choice does **not in any way** limit your post-secondary choices!)

What else is there?

- Experiential Learning, Career Exploration, & Reach Ahead events to help you make informed decisions about your career
- Guest speakers, field trips to technology facilities, college & university visits
- Events organized by organizations such as The Employment Hub, Skills Ontario, and local business groups

You will also earn industry-recognized certifications for free! You need a minimum of 6 certifications, 3 of which are mandatory (1st Aid, CPR, & WHMIS). Here are some options for the others:

Leadership Skills	Project Management	Portfolio Development
Working at Heights	CAD / CAM Manufacturing	Customer Service

What's the future?

Earl's Manufacturing SHSM will help you explore and prepare for rewarding careers in so many fields. Here's a small sampling ...

University & College

Mechanical Engineering – Manufacturing, Controls, Automation, and Robotics

Mechatronics Engineering

Aviation & Aerospace Engineering

Industrial Engineering

Computer Engineering

Process Automation

Mechanical CAD/CAM Technician – Automated Machining

Mechanical Technician – Tool Making

Apprenticeship & Workplace

Mechanical Millwright

Machinist

CAD / CAM / CNC Specialist

Welder

Surveyor

Precision Metal Fabricator

Pipefitter / Steamfitter

Electrician

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