

SPECIALIST HIGH SKILLS MAJOR



MANUFACTURING

CREDITS

4 Manufacturing Major Credits* (at least 1 in Grade 11 & 1 in Grade 12)		1 Science Credit or Business Credit	1 English Credit
Grade 11	Grade 12	<input type="checkbox"/> BAF3M-Accounting <input type="checkbox"/> BDI3C - Entrepreneurship <input type="checkbox"/> BMI3C - Marketing <input type="checkbox"/> ICS3U - Computer Prog <input type="checkbox"/> MEL3E - FF Math <input type="checkbox"/> SBI3C - Biology <input type="checkbox"/> SBI3U - Biology <input type="checkbox"/> SCH3U - Chemistry <input type="checkbox"/> SPH3U - Physics <input type="checkbox"/> GLE4O - Learning Strategies <input type="checkbox"/> ICS4U - Comp Science <input type="checkbox"/> OLC4O - Literacy Course <input type="checkbox"/> SBI4U - Biology <input type="checkbox"/> SCH4C - Chemistry <input type="checkbox"/> SCH4U - Chemistry <input type="checkbox"/> SES4U - Earth and Space <input type="checkbox"/> SNC4M - Medical Science <input type="checkbox"/> SPH4U - Physics	<input type="checkbox"/> ENG3C <input type="checkbox"/> ENG3E <input type="checkbox"/> ENG3U <input type="checkbox"/> ENG4C <input type="checkbox"/> ENG4E <input type="checkbox"/> ENG4U <input type="checkbox"/> NBE3C <input type="checkbox"/> NBE3U <input type="checkbox"/> OLC4O
<input type="checkbox"/> HNC3C - Fashion <input type="checkbox"/> ICS3U - Comp Program <input type="checkbox"/> IDCO - Leadership <input type="checkbox"/> SCH3U - Chemistry <input type="checkbox"/> SPH3U - Physics <input type="checkbox"/> TCJ3C - Construction Tech <input type="checkbox"/> TCJ3E - FF Constr. Tech <input type="checkbox"/> TDJ3M - Tech Design <input type="checkbox"/> TEJ3M - Comp Engineering <input type="checkbox"/> TGJ3M - Comm Tech <input type="checkbox"/> TMJ3C - Mfg Tech <input type="checkbox"/> TMJ3E - Mfg Tech <input type="checkbox"/> TMJ3M - Mfg Tech <input type="checkbox"/> TMW3E - Mfg Tech: Welding <input type="checkbox"/> TTA3C - Transport Tech <input type="checkbox"/> TTJ3C - Transport Tech	<input type="checkbox"/> HNB4M - Fashion <input type="checkbox"/> ICS4U - Comp Program <input type="checkbox"/> IDC4O - Leadership <input type="checkbox"/> IDC4U - Leadership <input type="checkbox"/> MCV4U - Calculus <input type="checkbox"/> MHF4U - Functions <input type="checkbox"/> SCH4C - Chemistry <input type="checkbox"/> SCH4U - Chemistry <input type="checkbox"/> SPH4U - Physics <input type="checkbox"/> TCJ4C - Construction Tech <input type="checkbox"/> TCJ4E - FF Construction <input type="checkbox"/> TDJ4M - Tech design <input type="checkbox"/> TEJ4M - Comp Engineering <input type="checkbox"/> TGJ4M - Comm Tech <input type="checkbox"/> TMJ4C - Mfg Tech <input type="checkbox"/> TMJ4E - Mfg Tech <input type="checkbox"/> TMJ4M - Mfg Tech <input type="checkbox"/> TMW4E - Mfg Tech: Welding <input type="checkbox"/> TTA4C - Transport Tech <input type="checkbox"/> TTJ4C - Transport Tech	<p style="text-align: center;">1 Mathematics Credit</p> <input type="checkbox"/> MAP4C <input type="checkbox"/> MBF3C <input type="checkbox"/> MCF3M <input type="checkbox"/> MCR3U <input type="checkbox"/> MCV4U <input type="checkbox"/> MDM4U <input type="checkbox"/> MEL3E <input type="checkbox"/> MEL4E <input type="checkbox"/> MHF4U	
			<p style="text-align: center;">Co-op</p> <input type="checkbox"/> Co-op ***You need to take co-op <u>one time</u> and you earn a 2 credit co-op credit*** **Ideally, you take this at LHSS or you can do this in summer school***

** Alternative Cooperative Education credit may be used as a substitute, but it must be related to the sector and in addition to the 2 Coop credits required.*

CERTIFICATIONS

3 Compulsory Certificates

- Cardiopulmonary Resuscitation (CPR) Level C** - includes automated external defibrillation (AER)
- Standard First Aid** - Complete with CPR Training
- Workplace Hazardous Materials Information System (WHMIS):** Complete with Co-op
CPR Level C & First Aid will be offered at LHSS and is a 2 day training and will be offered to you once you completed co-op or are doing co-op at LHSS. If you have completed this already, please take a picture and email it to Mrs. Campbell

3 Electives from the list below (many are done with Co-op or during field trips or lunch and learns workshops throughout the year)

- | | |
|---|--|
| <input type="checkbox"/> advanced training in a technique (313) | <input type="checkbox"/> infection control |
| <input type="checkbox"/> advanced training in a technology (309) | <input type="checkbox"/> leadership skills |
| <input type="checkbox"/> anti-oppression and allyship training | <input type="checkbox"/> Lean Manufacturing |
| <input type="checkbox"/> basic electrical safety | <input type="checkbox"/> lockout/tagging |
| <input type="checkbox"/> Basic Safety Orientation (BSO Plus) | <input type="checkbox"/> personal protective equipment - manufacturing |
| <input type="checkbox"/> Canadian Welding Bureau (CWB) - flat | <input type="checkbox"/> portfolio development |
| <input type="checkbox"/> computer-aided design and computer-aided manufacturing (CAD/CAM) | <input type="checkbox"/> project management |
| <input type="checkbox"/> confined space awareness | <input type="checkbox"/> propane safety |
| <input type="checkbox"/> customer service | <input type="checkbox"/> safe lifting |
| <input type="checkbox"/> elevated work platforms | <input type="checkbox"/> scaffold safety |
| <input type="checkbox"/> fall protection | <input type="checkbox"/> sector-specific software 1 |
| <input type="checkbox"/> fire safety and fire extinguisher use | <input type="checkbox"/> sector-specific vehicle operation and safety |
| <input type="checkbox"/> first aid/CPR/AED awareness | <input type="checkbox"/> specialized skills training program/competition (e.g. Skills Canada provincial level) |
| <input type="checkbox"/> handling dangerous substances | <input type="checkbox"/> transportation of dangerous goods |
| <input type="checkbox"/> health and safety - basic | <input type="checkbox"/> Working at Heights |
| <input type="checkbox"/> hoisting and rigging | |

NOTE: Where an item in the table is **capitalized**, it is the proper name of the specific certification or training course/program that is appropriate for the SHSM. Where an item is **lowercase**, it is the name of an area, type or category of training for which specific certification or training courses/programs should be selected by the school or the board.

OTHER REQUIREMENTS

- Experiential learning and career exploration activities:** Complete with various field trips
- Reach ahead experiences:** Complete with Alumni event or school field trips
- Sector-partnered experiences (SPEs):** Case study done through competition or at school

RESOURCE:

[Ontario's Ministry of Education: Specialist High Skills Major - Information and Communications Technology](https://www.ontario.ca/document/specialist-high-skills-major-policy-and-implementation-guide/information-and-communications-technology)
<https://www.ontario.ca/document/specialist-high-skills-major-policy-and-implementation-guide/information-and-communications-technology>