

# Construction

## Why consider SHSM – Construction

This program enables students to:

- Customize secondary school education to suit interests and skills
- Complete sector recognized certifications to build their resume
- Prepare for post-secondary opportunities
- Explore and refine career goals
- Earn the SHSM Distinction on their OSSD
- Engage in experiential learning with like-minded peers

### Required Certifications

- CPR level C (with AED)
- Health & Safety – basic
- Standard First Aid
- Working at Heights
- WHMIS generic

### Elective Certification (at least 2)

- Basic electrical safety
- **Canadian Welding Bureau – Flat**
- Chainsaw safety
- Computer-aided design and computer-aided manufacturing (CAD/CAM)
- Confined space awareness
- Customer service
- Elevated work platforms
- Energy efficiency training (**Energy Star, LEED**)
- Fall protection
- Fire safety and fire extinguisher use
- Hoisting & rigging
- Insulated concrete forming
- Land surveying basics
- Leadership skills
- Lockout/tagging
- Ozone-depletion prevention
- Portfolio development
- Powder actuated tools
- Project management
- Propane in construction
- Scaffold safety
- Sector-specific vehicle operation and safety
- Specialized skills training program/competition (e.g, Skills Canada, WoodLINKS)
- Suspended access equipment
- Traffic control
- Trenching safety
- Project Management
- Portfolio Development

## What is SHSM?

Specialist High Skills Majors let Grade 11 and 12 students focus on a career path that matches their skills and interests while meeting the requirements of the Ontario Secondary School Diploma (OSSD).

### Reach Ahead/ Experiential Learning Field Trips

- university/college workshops
- industry tours
- skills competitions
- career fairs
- guest speakers

### Sector Partnered Contextualized Component (SPCC)

- ICE (Innovation, Creativity, Entrepreneurship)
- Coding
- Mathematical Literacy



**APPLY TO SHSM!**  
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# Construction

Newmarket High School

## Co-op Placements (minimum 2 credits – ½ day for 1 semester)

Students apply their learning from an SHSM pathway course in an authentic learning environment. Future careers may include one of the following (this is not a complete list of careers for this sector):

- Architect / Architectural Design
- Brick and Stone Mason
- Carpenter
- Concrete Finisher
- Construction Estimator
- Construction Manager
- Construction Millwright
- Contractor and Supervisor
- Demolition Worker
- Drywall Installer
- Electrician
- Engineer (Electrical, Civil, Mechanical, Structural)
- Heating and Air Conditioning Contractor
- Home Inspector
- Home Renovator
- HVAC
- Interior Designer
- Painter and Decorator
- Plumber
- Roofer

## Four Major Credits between grade 11 & 12 with a focus in Construction

### Grade 11(select at least 1)

AVI3M	Visual Arts
SPH3U	Physics
TCJ3C	Construction Technology
TDJ3M	Technological Design
TWJ3E	Custom Woodworking

### Grade 12 (select at least 1)

AVI4M	Visual Arts
CGW4C/U	World Issues
SPH4C/U	Physics
TCJ4C/E	Construction Technology
TDJ4M	Technological Design
TWJ4E	Custom Woodworking

\* Dual credit (Discuss with Guidance)

## Plus: ONE additional Grade 11 or Grade 12 course from the list below (Includes a CLA)

BAF3M	BAT4M	BBB4M	BDI3C	BMI3C
BMX3E	BOH4M	BTA3O	GL3EO/4O	GLS4O
ICS3C/U	ICS4C/4C	MEL3E/4E	OLC4O	SBI3C/U
SCH3U/4C	SES4U	SNC4E/M	SPH3U/4C	SVN3E/M

## Plus: ONE Required Math in Grade 11 OR 12 (includes a CLA)

<b>Grade 11:</b>	MBF3C	MCF3M	MCR3U	MEL3E	<b>Grade 12:</b>	MCV4U	MDM4U	MHF4U	MEL4E
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## Plus: ONE Required English in Grade 11 OR 12 (includes a CLA)

<b>Grade 11:</b>	ENG3E	ENG3C	ENG3U	<b>Grade 12:</b>	ENG4E	ENG4C	ENG4U
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