



COLLINGWOOD COLLEGIATE INSTITUTE
Construction Specialist High Skills Major (SHSM)



The **Construction: Building and Design SHSM** is a specialized program designed to provide students with opportunities to explore the construction sector. This program is open to students in any pathway who may be interested in pursuing careers related to the construction industry. Through this program students will build a foundation of construction focused knowledge and skills, gain valuable work experience, and receive employer recognized certifications and/or training in such areas as Working at Heights, WHMIS, basic health and safety, basic electrical skills, basic chainsaw education and SFA/CPR Level C.

WHAT IS REQUIRED? Please see *Guidance for pre-requisite requirements*

The Construction: Building and Design SHSM is made up of the following five (5) components:

1. A bundle of 10 Grade 11 and Grade 12 credits
2. Sector-recognized certifications and training courses
3. Experiential learning and career exploration activities within the sector
4. “Reach ahead” experiences connected with the student’s chosen postsecondary pathway
5. Sector-Partner Contextualized Experience to engage students in sector related content, skills and knowledge

Note: Please see below for course and certification/training requirements

SHSM CREDIT OPTIONS AND REQUIREMENTS:

	GRADE 11	GRADE 12
SHSM Major Credits Complete 4 in Total <ul style="list-style-type: none"> • min. 1 from Gr. 11 • min. 1 from Gr. 12 	Tech Design, Manufacturing, Custom Woodworking, Construction, Robotics, Computer Engineering, Physics, Housing & Home Design, Peer Leadership	Tech Design, Manufacturing, Custom Woodworking, Construction, Robotics, Computer Engineering, Physics
English Complete 2 (Gr. 11/12)	Any ONE English course	Any ONE English course
Mathematics Complete 2 (Workplace students need ONE only)	Any ONE Math course	Any ONE Math course (Apprenticeship, College and University students only)
Business or Science Complete 1	Marketing, Entrepreneurship, Accounting, Computer Science, Personal Money Mgmt, Environmental Science, Physics, Chemistry, Biology	Business Leadership, International Business Fundamentals, Accounting, Computer Science, Building Financial Security, Science, Biology, Chemistry, Physics
Cooperative Ed. Complete 2 credits (connected to the Construction sector)	2 credit co-op (extra co-op credits may be used towards ONE major credit requirement)	



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CERTIFICATIONS AND/OR TRAINING

Complete Five (5) Compulsory Certifications and/or Training

Cardiopulmonary Resuscitation (CPR) Level C (with AED)	basic health & safety	WHMIS	Working at Heights	Standard First Aid
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Complete Two (2) Elective Certifications and/or Training - Examples Include

basic electrical safety	brick and block laying basics	chainsaw safety
confined space awareness	energy efficiency training	insulated concrete forming
land surveying basics	residential plumbing basics	scaffold safety
CAM/CAD programming	specialized skills training program/competition (ie. Skills Canada Provincial Level)	customer service

CO-OP, EXPERIENTIAL LEARNING AND REACH AHEAD OPPORTUNITIES

Through co-op work experience; on-site sector specific training; information sessions with trained professionals; field trips to work sites, post-secondary institutes and industry related establishments; you will be given the opportunity to witness and experience the real world atmosphere of the **Construction: Building and Design** careers that interest you.

Students will also experience a focus in mathematical literacy as they problem solve their way through a construction, building and design challenge set up by one of our community partners.

POSSIBLE OCCUPATIONS BY PATHWAY

Apprenticeship	College	University	Workplace
Brick and Stone Mason Carpenter Millwright Electrician HVAC Painter Plumber Roofer	Architectural Design Technician Civil Engineering Technologist Construction Estimator Construction Manager Contractor/Supervisor Home Inspector Interior Designer Home Renovator	Architect Civil Engineer Structural Engineer Mechanical Engineer Electrical Engineer	Carpenter Helper Concrete Finisher General Labourer Demolition Worker Drywall Installer Home Renovator



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STUDENT APPLICATION FORM

Name: _____ Grade: _____ Cell Phone: _____

Parent/Guardian Name(s): _____ Age: _____

School Email: _____

Plans/Goals After High School? Apprenticeship College University Workplace

Briefly outline your career and/or education goals.

FOR CO-OP PURPOSES:
 Do you have a preference for a placement in a specific job/career or with a specific employer?

Choice #1:	Choice #2:
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SCHOOL REFERENCES:
 Please list 2 school references (Administrator(s) or teacher(s)). **PLEASE PRINT AND HAVE YOUR REFEREE SIGN BELOW**

Name: _____	Name: _____
Signature: _____	Signature: _____

STUDENT ACKNOWLEDGEMENT / PARENT/GUARDIAN CONSENT:

- I acknowledge and understand requirements including:
- I understand that no substitutions for these courses, qualification and/or certifications are possible and failure to complete one or more of these requirements will make me ineligible to graduate with a SHSM designation on my diploma or transcript.
 - I understanding that I need to identify myself as a SHSM student to my teachers so that they can help support my learning.
 - I hereby agree to participate in the SHSM Construction: Building and Design Program at Collingwood Collegiate Institute.

Student Signature:	Date:
Parent/Guardian Signature:	Date:
School Official Signature:	Date:

Please complete this form in FULL and return it to the Guidance office