

Specialist High Skills Major

Construction

2025-2026

Profile

The construction industry is one of Ontario's largest employers, and because of retirements and increased construction activity, employees are in high demand. The Construction Specialist High Skills Major offers students the opportunity to explore the many disciplines associated with construction. Our experienced staff will provide industry specific training in the areas of design, computer assisted design, precision measurement and layout, hand tools and machine tools.

Certifications (7)

Compulsory (5):

- CPR Level C with AED
- Health and Safety - basic
- Standard First Aid
- Working at Heights
- WHMIS

Electives (2) (more options at Ontario.ca):

- Chainsaw safety
- Fall Protection
- Scaffold Safety
- Fire Safety and Fire Extinguisher Use
- Elevated Work Platforms
- Powder-actuated Tools

Other Opportunities:

- Industry visits
- Community partnerships

Possible Occupations in the Sector

Workplace	Apprenticeship	College	University
Carpenter Helper	Carpenter	Civil Engineering	Architect
Drywall Installer	Electrician	Home Inspector	Electrical Engineer
Home Renovator	Plumber	Residential Builder	Mechanical Engineer

Additional Information

- SHSMs are for students in all four pathways: Workplace, Apprenticeship, College, and University.
- Major credits may be offered in school, but additional courses are offered through eLearning and booklet courses.
- You can indicate your interest at www.myblueprint.ca or speak with your Guidance Counsellor.
- There are no extra credits required - the SHSM is obtained within the 30 OSSD credits.
- SHSMs are two-year programs and are made up of Grade 11 and 12 courses.
- There are no additional fees for students to participate in a SHSM.



Construction SHSM Pathway (Total of 10 credits)

Please check the Ministry's Master List for more approved courses

Grade 11 Courses

Grade 12 Courses

Major Credits (4 credits)

Students can now substitute 3 additional Cooperative Education credits related to their sector in place of 3 major credits

AVI3M – Visual Arts
IDC3O – Interdisciplinary Studies
SPH3U – Physics
TCJ3C – Construction Engineering Technology
TCJ3E – Construction Engineering Technology
TCE3E – Construction Technology: Electrical/Network Cabling
TDJ3O – Technological Design and the Environment
TDJ3M – Technological Design
TMY3C – Manufacturing Technology: Welding Technician
TTJ3C – Transportation Technology
TTS3C – Transportation Technology: Small Engine & Recreational Equipment
TWJ3E – Custom Woodworking

AVI4M – Visual Arts
CGW4U – World Issues: A Geographic Analysis
SPH4C – Physics
SPH4U – Physics
TCE4E – Construction Technology: Electrical/Networking Cabling
TCJ4C – Construction Engineering Technology
TCJ4E – Construction Technology
TDJ4O – Technological Design in the Twenty-first Century
TDJ4M – Technological Design
TMY4C – Manufacturing Technology: Welding Technician
TTJ4C – Transportation Technology
TWJ4E – Custom Woodworking

Possible Dual Credit
TIA4T – Motive Power Trade Practices and Application
TLA4T – Intro to Welding
TLA4Y – Level 1 Welding
TSY4Y – Construction Craft Worker

English (1 credit if Apprenticeship, College, or University & 2 credits if Workplace)

NBE3C – Understanding Contemporary First Nations, Métis, and Inuit Voices
NBE3E – Understanding Contemporary First Nations, Métis, and Inuit Voices
NBE3U – Understanding Contemporary First Nations, Métis, and Inuit Voices

ENG4C – English
ENG4E – English
ENG4U – English
OLC4O – Ontario Secondary School Literacy Course

Math (2 credits if Apprenticeship, College, or University & 1 credit if Workplace)

MBF3C – Foundations for College Math
MCF3M – Functions and Applications
MEL3E – Mathematics for Work and Everyday Life
MCR3U – Functions

MAP4C – Foundations for College Mathematics
MCT4C – Mathematics for College Technology
MDM4U – Data Management
MCV4U – Calculus and Vectors
MHF4U – Advanced Functions
MEL4E – Math for Work and Everyday Life

Other (1 credit)

Students can now substitute 1 additional Cooperative Education credit related to their sector in place of 1 other credit

AVI3O – Visual Arts
BAF3M – Financial Accounting Fundamentals
BDI3C – Entrepreneurship: The Venture, College (PACE)
BDP3O – Entrepreneurship, The Enterprising Person
BMI3C – Marketing: Goods, Services, Events
BMX3E – Marketing: Retail and Service, Workplace (PACE)
BTA3O – Information and Communication Technology: The Digital Environment
ICS3C – Introduction to Computer Programming
ICS3U – Introduction to Computer Programming
SBI3C – Biology
SBI3U – Biology
SCH3U – Chemistry
SPH3U – Physics
SVN3E – Environmental Science

BAT4M – Financial Accounting Principles
ICS4C – Computer Programming
ICS4U – Computer Programming
SBI4U – Biology
SCH4C – Chemistry
SCH4U – Chemistry
SNC4E – Science
SPH4C – Physics
SPH4U – Physics
GLE4O – Advanced Learning Strategies
GLS4O – Advanced Learning Strategies
OLC4O – Ontario Secondary School Literacy Course
MEL4E – Math for Work and Everyday Life

**Cooperative Education (2 credits taken in grade 11 OR 12)
Summer co-op available.**

Specialist High Skills Major Construction

Student Name: _____

Year of graduation: _____

Pathway of interest:

☐ Apprenticeship ☐ College ☐ University ☐ Workplace

Certifications (Mandatory*): ☐ *Standard First Aid ☐ *CPR Training ☐ *WHMIS Training ☐ *Health & Safety ☐ Working at Heights	Date Completed: _____ _____ _____ _____	2 Sector Specific Certifications: ☐ _____ ☐ _____	Date Completed: _____ _____
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Pathway	Apprenticeship	College	University	Workplace
4 Major Credits: New: Students can now substitute 3 additional Cooperative Education credits related to their sector in place of 3 major credits	☐ _____ ☐ _____ ☐ _____ ☐ _____	☐ _____ ☐ _____ ☐ _____ ☐ _____	☐ _____ ☐ _____ ☐ _____ ☐ _____	☐ _____ ☐ _____ ☐ _____ ☐ _____
	☐ 1 extra sector-related coop credit _____ ☐ 1 extra sector-related coop credit _____ ☐ 1 extra sector-related coop credit _____			
1 English (2 if workplace):	☐ _____ ☐ _____	☐ _____ ☐ _____	☐ _____ ☐ _____	☐ _____ ☐ _____
2 Math (1 if workplace):	☐ _____ ☐ _____	☐ _____ ☐ _____	☐ _____ ☐ _____	☐ _____ ☐ _____
1 Other Required Credit: Students can substitute 1 additional Cooperative Education credit related to their sector in place of 1 other credit	☐ _____	☐ _____	☐ _____	☐ _____
	☐ 1 extra sector-related coop credit _____			
2 Sector Related Cooperative Education Credits:	☐ Coop _____ ☐ Coop _____	☐ Coop _____ ☐ Coop _____	☐ Coop _____ ☐ Coop _____	☐ Coop _____ ☐ Coop _____

Minimum 1 Experiential Learning, 1 Reach Ahead Experience & 1 Sector-Partner Experience:

☐ Experiential: _____ Date: _____
☐ Reach Ahead: _____ Date: _____
☐ SPE: _____ Date: _____