

# CONSTRUCTION SHSM

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## PROFILE OF THE CONSTRUCTION SECTOR

According to the Ontario Construction Secretariat, the construction industry is one of Ontario's largest employers. The Construction Sector Council has created a province-by-province, trade-by-trade labour market forecast for the next nine years. In Ontario, it is estimated that 60,000 workers will be required to replace those retiring, who will take essential technical, supervisory, and management skills with them. Furthermore, an additional 75,000 workers will be needed to fill positions related to new construction between 2009 and 2017.<sup>1</sup>

There are four categories of work in the construction industry. Each requires the use of different equipment and workers with a variety of skills. Depending on the career chosen, a graduate could work in any or all of these categories:

- new home building and renovation, including building, remodelling, or renovating houses and apartment buildings
- heavy industrial construction, including building industrial facilities such as cement, automotive, chemical, or power plants, refineries, and oil-sands installations
- institutional and commercial construction, including building commercial and institutional buildings and structures such as stadiums, schools, hospitals, grain elevators, and swimming pools
- civil engineering construction, including engineering projects such as highways, dams, water and sewer lines, power and communication lines, and bridges.

## SAMPLE OCCUPATIONS IN THE CONSTRUCTION SECTOR

Apprenticeship Training	College
<ul style="list-style-type: none"> <li>• Brick and Stone Mason</li> <li>• Carpenter</li> <li>• Construction Millwright</li> <li>• Electrician</li> <li>• Heating and Air Conditioning Contractor</li> <li>• Painter and Decorator</li> <li>• Plumber</li> <li>• Roofer</li> </ul>	<ul style="list-style-type: none"> <li>• Architectural Design Technician</li> <li>• Civil Engineering Technologist</li> <li>• Construction Estimator, Manager or Technologist</li> <li>• Contractor and Supervisor – Electrical Trades and Telecommunications</li> <li>• Home Inspector</li> <li>• Interior Designer</li> <li>• Residential Home Builder or Renovator</li> </ul>
University	Workplace
<ul style="list-style-type: none"> <li>• Architect</li> <li>• Electrical Engineer</li> <li>• Mechanical Engineer</li> <li>• Structural Engineer</li> </ul>	<ul style="list-style-type: none"> <li>• Carpenter Helper</li> <li>• Concrete Finisher</li> <li>• Construction Trades Helper and Labourer</li> <li>• Demolition Worker</li> <li>• Drywall Installer</li> <li>• Helper-Construction Trades</li> <li>• Home Renovator</li> </ul>

Note: The names here reflect common usage by institutions and organizations in this sector in Ontario.

<sup>1</sup> Construction Sector Council, Careers in Construction, [www.careersinconstruction.ca](http://www.careersinconstruction.ca)

# Required Components for the SHSM - Construction

The SHSM-Construction has the following five components:

**1. A bundle of ten Grade 11 and 12 courses**

- four Construction major credits
- four required courses in English, math, business studies or science where a CLA is delivered
- two co-op credits in the sector (additional co-op credits can be substituted for major or required credits)

SHSM–Construction									
Credits		Apprenticeship Training		College		University		Workplace	
		Gr. 11	Gr. 12	Gr. 11	Gr. 12	Gr. 11	Gr. 12	Gr. 11	Gr. 12
<b>Major Credits (may include maximum of 1 Co-op Credit)</b>		4*		4*		4*		4*	
includes content delivered in the sector’s context	English	1		1		1		2	
	Mathematics	2		2		2		1	
	Business Studies or Science or Additional Co-op Credit	1		1		1		1	
<b>Cooperative Education</b>		2		2		2		2	
<b>Total number of credits</b>		10		10		10		10	

\*a minimum of one Gr 11 and one Gr 12 credit

**2. Seven sector recognized certifications and training:**

Five compulsory				
CPR -Level A	WHMIS	Standard First Aid	fall protection	health and safety - basic
Two electives from the list below				
chainsaw safety	confined space awareness	electrical safety	elevated work platforms	
energy efficiency training	hoisting and rigging	insulated concrete forming	lift truck safety	
personal protective equipment- construction	powder-actuated tools	propane in construction	scaffold safety	
suspended access equipment	traffic control	trenching safety	extinguishing fires	

**3. Experiential Learning and Exploration Activities**

**4. Reach Ahead Experiences**

**5. Essential Skills and Workplace Habits and the Ontario Skills Passport**