CONSTRUCTION CONST

What are SPECIALIST HIGH SKILLS MAJORS (SHSM)?

The **SHSM** is a specialized, ministry-approved program that allows students to focus their learning on a specific economic sector while meeting the requirements of the Ontario Secondary School Diploma (OSSD).

SHSMs assist students in their transition from secondary school to apprenticeship training, college, university, or the workplace.

These programs enable students to gain sectorspecific skills and knowledge in engaging, careerrelated learning environments, and to prepare in a focused way for graduation and postsecondary education, training, or employment.







- Customize their secondary school education to suit their interests and talents;
- 2 Develop specialized knowledge and skills that are valued by the sector and postsecondary education institutions;
- 3 Earn credits that are recognized by the sector and postsecondary education institutions;
- Gain sector-specific and career-relevant certification and training;
- 5 Develop essential skills and work habits that are valued by the sector;
- Identify, explore, and refine their career goals and make informed decisions about their postsecondary destination.

HOW DO I ENROLL?

- Contact lead SHSM teacher in your school, preferably in Grade 10
- During course selection in Grade 10
- Contact the Guidance Department in your school





SPECIALIST HIGH SKILLS MAJOR

components of an SHSM

1. BUNDLED CREDITS

Eight to ten Grade 11 and Grade 12 credits focused in the area of the skilled career, including cooperative education credits



2. CERTIFICATION AND TRAINING

Sector-recognized certifications and specialized training courses



3. EXPERIENTIAL LEARNING & CAREER EXPLORATION ACTIVITIES

Experiential activities within the sector and career field



4. REACH AHEAD EXPERIENCES

Learning experiences connected with the student's postsecondary plans, including apprenticeship, college, university or workplace

5. SECTOR PARTNERED CONTEXTUALIZED EXPERIENCE

The offerings within this component include, Innovation Creativity and Entrepreneurship (ICE) training, sector-delivered contextualized coding, sector-delivered contextualized mathematical literacy

All SHSMs are offered in all four pathways: apprenticeship training, college, university, and workplace.

What do GRADUATES RECEIVE?

Students who complete the requirements for the OSSD (Ontario Secondary School Diploma) and for the SHSM will receive an OSSD with an embossed SHSM seal on it. Credits earned towards the SHSM are indicated on the Provincial Report Card, and completion of the SHSM is recorded on the Ontario Student Transcript (OST).

REQUIRED COMPONENTS FOR THE SHSM—CONSTRUCTION

The SHSM-Construction has the following **FIVE** required components:



A BUNDLE OF NINE (9) GRADE 11 AND GRADE 12 CREDITS

- FOUR construction major credits (that lead to apprenticeship training, college, university or workplace)
- THREE other required credits (one English, one Mathematics, one science or business studies)
- TWO cooperative education credits



SEVEN (7) SECTOR-RECOGNIZED CERTIFICATIONS AND/OR TRAINING COURSES/PROGRAMS

FIVE (5) COMPULSORY

- Cardiopulmonary Resuscitation (CPR) Level C
- includes automated external defibrillation (AED)
- Health and Safety Basic
- Working at Heights

- Standard First Aid
- Workplace Hazardous Materials Information System (WHMIS)
 - generic (i.e., not site-specific) instruction

TWO (2) ELECTIVES FROM THE LIST BELOW

- basic electrical safety
- ☐ Canadian Welding Bureau (CWB) flat
- □ chainsaw safety
- computer-aided design and computer-aided manufacturing (CAD/CAM)
- confined space awareness
- customer service
- elevated work platforms

- energy efficiency training (e.g., Energy Star, LEED)
- □ fall protection
- fire safety and fire extinguisher use
- □ hoisting and rigging
- ☐ insulated concrete forming
- land surveying basics
- ☐ leadership skills
- □ lockout/tagging
- $oldsymbol{\square}$ 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 provincial level, WoodLINKS)

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EXPERIENTIAL LEARNING AND CAREER EXPLORATION ACTIVITIES

Opportunities relevant to the sector might include the following:

- One-on-one observation of a cooperative education student at a placement in the construction sector (an example of job twinning)
- A day-long observation of a skilled tradesperson in the construction sector (an example of job shadowing)
- A one- or two-week work experience with an individual employed in the construction sector (an example of work experience)
- Participation in a local, provincial, or national Skills Canada competition
- A tour of a municipal planning department
- Attendance at a construction sector trade show, conference, or job fair
- A volunteer experience with a non-profit organization such as Habitat for Humanity



REACH AHEAD EXPERIENCES

Students are provided one or more reach ahead experiences – opportunities to take the next steps along their chosen pathway – as shown in the following examples:

- Apprenticeship: visiting an approved apprenticeship delivery agent in the sector
- College: interviewing a college student enrolled in a sector-specific program
- **University:** observing a university class in a sector-related program
- Workplace: interviewing an employee in the sector



SPCE - SECTOR-PARTNERED CONTEXTUALIZED EXPERIENCE

Provides schools with the flexibility to adjust their programming to local capacity and opportunities, and align with the interests and needs of students.

OCCUPATIONS IN THE CONSTRUCTION SECTOR

- Sheet Metal Worker
- Concrete Finisher
- General Carpenter
- Brick & Stone Mason
- Plumber
- Building Inspection Technician
- Welding Techniques
- Mechanical Engineering
- Construction Millwright

- Electrical Engineering Technician
- Refrigeration & Air Conditioning Systems Mechanic
- Architectural Technician
- Electrical Engineering
- Civil Engineering
- Construction
 Maintenance
 Electrician

