

TRANSPORTATION



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 sector-specific skills and knowledge in engaging, career-related learning environments, and to prepare in a focused way for graduation and postsecondary education, training, or employment.



6 KEY BENEFITS for STUDENTS

- 1 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;
- 4 Gain sector-specific and career-relevant certification and training;
- 5 Develop essential skills and work habits that are valued by the sector;
- 6 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

SHSM **Student Success**
GRADES 7-12
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–TRANSPORTATION

The SHSM–Transportation has the following **FIVE** required components:

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

- **FOUR** transportation 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

2 **SIX (6)** SECTOR-RECOGNIZED CERTIFICATIONS AND/OR TRAINING COURSES/PROGRAMS

FOUR (4) COMPULSORY

- **Cardiopulmonary Resuscitation (CPR) Level C**
– includes automated external defibrillation (AED)
- **Standard First Aid**
- **Workplace Hazardous Materials Information System (WHMIS)**
– generic (i.e., not site-specific) instruction
- **Health and Safety – basic**

THREE (3) ELECTIVES FROM THE LIST BELOW

- | | | | |
|---|--|--|---|
| <input type="checkbox"/> air brakes | <input type="checkbox"/> fall protection | <input type="checkbox"/> original equipment manufacturer's training | <input type="checkbox"/> sector-specific vehicle operation and safety |
| <input type="checkbox"/> basic electrical safety | <input type="checkbox"/> filling propane and motor fuel tanks | <input type="checkbox"/> ozone-depletion prevention | <input type="checkbox"/> specialized skills training program/competition (e.g., Skills Canada provincial level) |
| <input type="checkbox"/> computer-aided design and computer-aided manufacturing (CAD/CAM) | <input type="checkbox"/> fire safety and fire extinguisher use | <input type="checkbox"/> Pleasure Craft Operator | <input type="checkbox"/> vehicle lift safety |
| <input type="checkbox"/> customer service | <input type="checkbox"/> introduction to logistics | <input type="checkbox"/> portfolio development | <input type="checkbox"/> Working at Heights |
| <input type="checkbox"/> Drive Clean | <input type="checkbox"/> ladder safety training | <input type="checkbox"/> project management | <input type="checkbox"/> elevated work platforms |
| <input type="checkbox"/> environmental spills | <input type="checkbox"/> leadership skills | <input type="checkbox"/> sector-specific regulations and legislation | |
| <input type="checkbox"/> ergonomics | <input type="checkbox"/> lockout/tagging | | |

3 EXPERIENTIAL LEARNING AND CAREER EXPLORATION ACTIVITIES

Opportunities relevant to the sector might include the following:

- | | | |
|---|--|--|
| <input type="checkbox"/> One-on-one observation of a cooperative education student at a placement in the transportation sector (an example of job twinning) | <input type="checkbox"/> A one- or two-week work experience with a member of an industry association or a professional in the sector (an example of work experience) | <input type="checkbox"/> A tour of an automobile dealership, specialized transportation business, or municipal transportation department office and garage |
| <input type="checkbox"/> A day-long observation of a skilled tradesperson in the transportation sector (an example of job shadowing) | <input type="checkbox"/> Participation in a local, provincial, or national Skills Canada competition | <input type="checkbox"/> Attendance at a transportation sector trade show, conference, or job fair |

4 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

5 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 **TRANSPORTATION** SECTOR

- | | |
|--|---|
| • Boat Operator | • Automobile Salesperson |
| • Automotive Painter – Motor Vehicle Repair | • Automotive Service Technician |
| • Truck and Coach Technician | • Industrial Engineering Technician |
| • Aerospace Engineer | • Navigation Officer – Water Transport |
| • Air Pilot | • Heavy Equipment Operators |
| • Bus Driver, Subway Operator, and Other Transit Operator | • Urban Planner |
| • Aircraft Assembler and Aircraft Assembly Inspector | • Industrial Designer |