



The **Specialist High Skills Major**(SHSM) encourages you to focus your secondary school education toward a career area of your choice. SHSM fits every pathway, whether you plan to go to work, apprenticeship, or college/university, you can earn a SHSM. The SHSM symbol on your diploma lets employers and postsecondary education know that you have knowledge, skills, and industry-recognized qualifications related to a particular career field.

How can a SHSM help students?

Students have the opportunity to:

- gain important skills on the job with actual employers, and at school
- earn valuable industry certifications, including first aid and CPR qualifications.
- obtain additional experience and knowledge to list on their resume, on personal statements of experience and to include on scholarship and bursary applications.

For more information, please see below, and contact this SHSM's Staff Team:

Champion Teacher: Mr. Legault **Co-op Education Teacher:** Ms. Baird **Guidance Counsellor:** Ms. Muto

Occupations in the Transportation Sector

The following tables provides examples of occupations in the transportation sector, with corresponding National Occupational Classifications (NOCs), sorted according to the type of postsecondary education or training the occupations would normally require.

University	College
Aerospace Engineer 2146 Automotive Engineer 2132 Industrial Designer 2252 Urban Planner 2153	Air Pilot 2271 Industrial Designer 2252 Industrial Engineering Technician 2233 Marine Engine Technician 7436 Mechanical Engineering Technologist 2232 Navigation Officer – Water Transport 2273 Quality Control Assembly Inspector – Automotive/Marine Engines 9486 Supervisors, Motor Transport, and Other Ground Transit Operators 7222

Apprenticeship Training	Workplace
Alignment and Brakes Technician 7321 Auto Body Repairer 7322 Automotive Painter – Motor Vehicle Repair 7322 Automotive Service Technician 7321 Marine Engine Mechanic 7311 Motorcycle Technician 7334 Parts Technician 1472 Recreation Vehicle Service Technician 7383 Small Engine Mechanic 7335 Transmission Technician 7321 Truck and Coach Technician 7321 Truck and Transport Vehicle Mechanic 7321	Aircraft Assembler and Aircraft Assembly Inspector 9481 Airport Ramp Attendant 7437 Automobile Salesperson 6421 Automotive Mechanical Installers and Servicers 7443 Boat Assembler and Inspector 9491 Boat Operator 7436 Bus Driver, Subway Operator, and Other Transit Operator 7412 Car Lot Attendant 6683 Delivery and Courier Service Drivers 7414 Heavy Equipment Operators (except Crane) 7421 Railway Track Maintenance Worker 7432

Course Selection (**subject to change)

St Paul students receive the SHSM seal on their graduation diploma when they:

- complete a specific bundle of Grade 11 and 12 courses (including English and Math)
- earn certifications and training, including first aid and CPR qualifications
- participate in reach ahead and career exploration activities
- gain essential skills and work habits through cooperative education placements, and at school
- obtain additional experience and knowledge to list on their resume, on personal statements of experience and to include on scholarship and bursary applications.

At St. Paul High School, the required components of the Transportation SHSM are as follows: FOUR **major** courses, ONE **other** course, TWO credits in **co-operative education**, SIX to EIGHT **certifications**, as well as participation in **reach ahead and career exploration activities** within the sector. Note that students must still complete their required English, math and religion courses. There is no charge to the student for these activities.

Student must choose any **FOUR** of the following ‘major’ courses (at least one in grade 11, at least one in grade 12, and the other two in grade 11 or 12.

SHSM Major Subjects							
Apprenticeship		College		University		Workplace	
11	12	11	12	11	12	11	12
TTJ3O	TTJ4E	TGJ3M	TGJ4M	ICS3U	ICS4U	TTJ3O	TTJ4O
TTJ3C	TTJ4C	TTJ3C	TTJ4C	SPH3U	SPH4U	TCJ3E	TCJ4E
TCJ3C	TCJ4C	TCJ3C	TCJ4C	TGJ3M	TGJ4M		TTJ4E
TCJ3E	TCJ4E	ICS3C	ICS4C				TCJ4E
			SPH4C				

Student must also choose **ONE** of the following ‘other’ courses (either grade 11 or grade 12, student’s choice)

Other Required Credits (refer to Ontario.ca/SHSM)							
Apprenticeship		College		University		Workplace	
11	12	11	12	11	12	11	12
BMI3C	SCH4C	BAF3M	SCH4C	SBI3U	SCH4U	BMX3E	GLS4O
BMX3C		BMI3C	BAT4M	SCH3U	SPH4U	SVN3E	GLE4O
SBI3C		SBI3C		SPH3U	BAT4M		
SVN3E				BAF3M	SBI4U		
					BBB4M		
					BOH4M		

Students must also choose a **2 credit co-op** (in grade 11 or grade 12, or in the summer if it does not fit otherwise).

NOTE - double co-op (4 credit) is also possible, and if this is done then this replaces 1 of the 4 major credits, and it also replaces the science/business credit requirement.

Outside of these requirements, the student must choose math in grade 11, and English in grade 11 and 12, along with religion in grade 11 and 12.

Specialist High Skill Major Certification Breakdown for Transportation

Four (4) compulsory			
Cardiopulmonary Resuscitation (CPR) Level C – includes automated external defibrillation (AED)	Health and Safety – Basic	Standard First Aid	Workplace Hazardous Materials Information System (WHMIS) – generic (i.e., not site-specific) instruction--achieved through co-operative education class

Three (3) electives from the list below			
air brakes	basic electrical safety	computer-aided design and computer-aided manufacturing (CAD/CAM)	customer service
Drive Clean	environmental spills	ergonomics	fall protection
filling propane and motor fuel tanks	fire safety and fire extinguisher use	introduction to logistics	Innovation, Creativity and Entrepreneurship (ICE)
ladder safety training	leadership skills	lockout/tagging	original equipment manufacturer's training--ProDemand
ozone-depletion prevention	Pleasure Craft Operator	portfolio development	project management
sector-specific regulations and legislation	sector-specific vehicle operation and safety	specialized skills training program/competition (e.g, Skills Canada provincial level)	vehicle lift safety
Working at Heights			

*highlighted certifications will be offered, however, in order to specialize the experience, other certifications may be possible. Speak with Mr. Legault for further information.

Sample reach ahead and career exploration opportunities

- Carleton University Engineering
- Ottawa University Engineering
- Algonquin College
- Loyalist College
- Skills Ontario Competitions
- Automotive Dealership Tours (Kanata Automall)