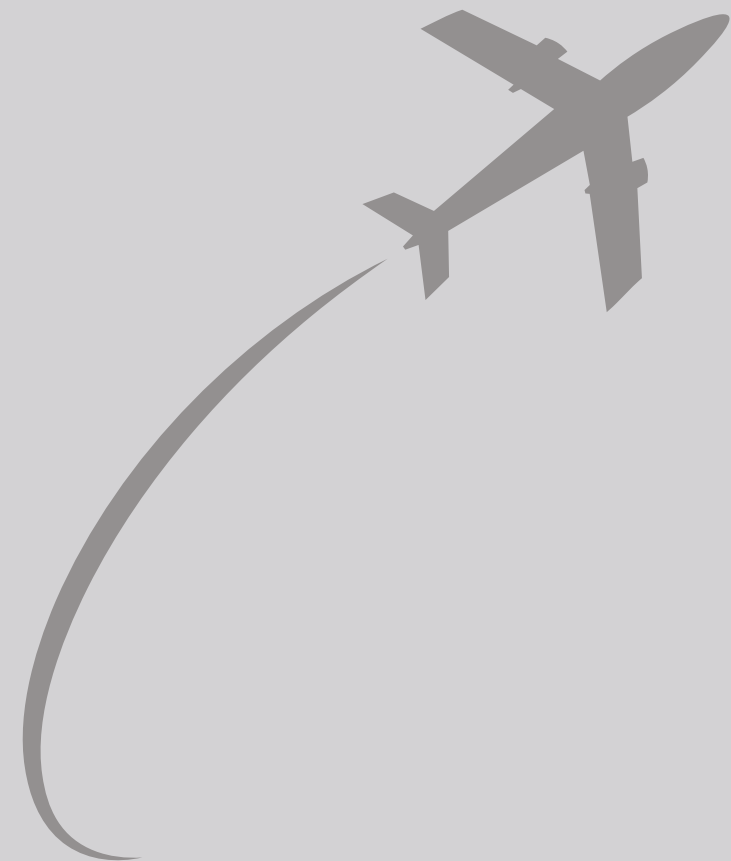


@NOTRE DAME

TRANSPORTATION TECHNOLOGY



What is SHSM?





A **S**pecialist **H**igh **S**kills **M**ajor (SHSM) is a ministry approved program that allows students to focus their learning on a specific economic sector while meeting the requirements for the Ontario Secondary School Diploma (OSSD).









SHSM @ ND: TRANSPORTATION TECHNOLOGY

Notre Dame's SHSM, matches technical skills and interests while meeting the requirements of the Ontario Secondary School Diploma.






Why enroll in SHSM?



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.



COMPONENTS OF A SHSM

Bundled Credits

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

Certification & Training

Sector-recognized certifications and specialized training courses

Experiential Learning & Career Exploration Activities

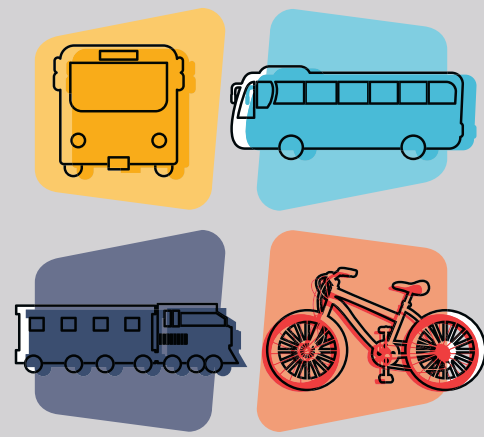
Experiential activities within the sector and career field

Reach Ahead Experiences

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

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



BENEFITS TO STUDENTS

1

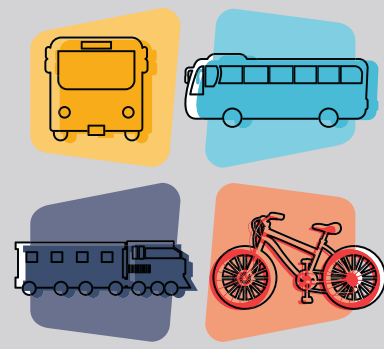
Customize their secondary school education to suit their interests and talents.

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.



BENEFITS TO STUDENTS CONTINUED

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.

WHAT IS MEANT BY BUNDLED CREDITS?

The 9 bundled credits are obtained in grade 11 and 12 and include: FOUR Transportation Technology Major credits (including possible substitution of additional co-op credits) ONE grade 11 or 12 English ONE grade 11 or 12 Math ONE "other" credit (Business/Computer Science, Science) two co-operative education credits



Major Credits Include

- Grade 11 BDI3C, ICS3C, ICS3U, SPH3U, TWJ3E TWJ3C Grade 12 ICS4C, ICS4U, IDC4U, SPH4C, SPH4U, TWJ4C, TTJ4C

Other Credits Include

- Business Courses : BAF3M, BDI3C, BMI3C Computer Science Courses: ICS3C, ICS3U, ICS4C, ICS4U Science Courses : SBI3C, SBI3U, SCH3U, SPH3U, SVN3E, SVN3M

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

THREE 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
- ❑ ladder safety training
- ❑ leadership skills
- ❑ lockout/tagging
- ❑ original equipment manufacturer's training
- ❑ 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
- ❑ elevated work platforms

FOUR 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



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 transportation sector (an example of job twinning) □ A day-long observation of a skilled tradesperson in the transportation sector (an example of job shadowing) □ 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) □ Participation in a local, provincial, or national Skills Canada competition □ A tour of an automobile dealership, specialized transportation business, or municipal transportation department office and garage □ Attendance at a transportation sector trade show, conference, or job fair



REACH AHEAD EXPERIENCES

Options Include:

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



Graduating with SHSM

All high school graduates earn the same Ontario Secondary School Diploma (OSSD). However, students who successfully complete every component of the SHSM have a Red Seal added to their diploma to recognize this accomplishment. Successful completion of the SHSM is also indicated on the student's official transcript (i.e. the Ontario Student Transcript). In this way, a record of their success and program concentration is accessible to postsecondary institutions, employers, and training organization.



JOBS IN TRANSPORTATION TECHNOLOGY

Apprenticeship Training

- Alignment Brakes Technician
- Auto Body Repair
- Automotive Painter
- Automotive Service Technician
- Marine Engine Mechanic
- Motorcycle Technician
- Parts Technician
- Recreation Vehicle Service Technician
- Transmission Technician
- Truck & Transport Vehicle Technician
- Small Engine Mechanic

College

- Air Pilot
- Industrial Designer
- Industrial Engineering Technician
- Marine Engine Technician
- Mechanical Engineering Technologist
- Navigation Officer - Water Transport
- Quality Control Assembly Inspector- Automotive/Marine Engines
- Supervisors, Motor Transport, and other Ground Transit Operators

University

- Aerospace Engineer
- Automotive Engineer
- Industrial Designer
- Urban Planner

Workplace

- Aircraft Assembler and Inspector
- Airport Ramp Attendant
- Automotive Salesperson
- Mechanical Installer and Services
- Boat Assembler and Inspector
- Boat Operator
- Bus Driver, Subway Operator
- Car Lot Attendant
- Delivery & Courier Services Driver
- Heavy Equipment Operator
- Railway Track Mechanic
- Service Station Attendant
- Tire Repairer



**FOR MORE INFORMATION OR
TO JOIN NOTRE DAME'S SHSM,
PLEASE CONTACT THE SHSM
LEAD OR DISCUSS COURSE
PLANNING WITH STUDENT
SERVICES**

