

SPECIALIST HIGH SKILLS MAJOR



**YOUR SKILLS,
YOUR FUTURE.**

MANUFACTURING



CREDITS

Course Package

Each Specialist High Skills Major (SHSM) program offers students a bundle of eight to ten credits. These courses are regular Ontario secondary school courses that allow students to work towards their Ontario Secondary School Diploma, but have been bundled as the most relevant courses to prepare students for a future in the manufacturing sector.

Two credits in this bundle include cooperative education where students pursue a work placement in a field of interest.

Achievements in the Program

- **Certifications and Awareness Training:** Students complete selected sector-recognized certifications and training
- **Experiential Learning Opportunities:**
 - > Have the opportunity to learn from industry professionals
 - > Complete two cooperative education credits and gain work experience in the manufacturing sector
 - > See guest speakers and go on field trips to explore careers in manufacturing
- Gain a **Sector-Partnered Experiences** (SPE) component that includes one of the following options: Innovation Creativity and Entrepreneurship (ICE) training; sector-delivered coding; or, sector-delivered mathematical literacy. The SPE will require a six hour activity, delivered with a sector partner and have an experiential and assessment component.
- **Reach Ahead Experiences:** Explore the field and postsecondary education opportunities in the manufacturing sector
- Completing the SHSM program prepares students for their pathway to **apprenticeship, college, university or work**



The bundle includes:

- **4 “major” credits** in Manufacturing in Grade 11 and 12
- **Supporting credits:**
 - > One Grade 11 English credit (and one Grade 12 English credit for students in the workplace pathway)
 - > One Grade 11 or 12 math credit
 - > One Grade 11 or 12 science credit (for students pursuing the apprenticeship, college or university pathways)
 - > Two cooperative education credits to experience life in the manufacturing sector

THE EXPERIENCE

Students in the Manufacturing Specialist High Skills Major program will:

- Be exposed to skilled trades and professional areas, such as engineering, robotics, programming, coding, millwrighting, machining, tool and die making and welding
- Gain an appreciation and understanding for craftsmanship, blueprint reading, proper communication and working to close tolerances
- Have the opportunity to create unique projects by working to blueprints and specifications and to participate in engineering, robotics and automation opportunities
- Work in a sector-related environment to explore future career paths
- Learn about apprenticeship opportunities and how the Ontario Youth Apprenticeship Program (OYAP) works





In Ontario, the manufacturing sector employs the most people and the production of consumer and industrial goods are essential for the province's prosperity. Although the manufacturing sector remains a powerhouse in our economy, the sector is undergoing fundamental changes as it refocuses its strategy and remains competitive in a global economy.



For more information on the Specialist High Skills Major Manufacturing program, contact your school guidance counsellor, SHSM board lead or visit Ontario.ca/SHSM

