

## CAREERS IN AVIATION & AEROSPACE

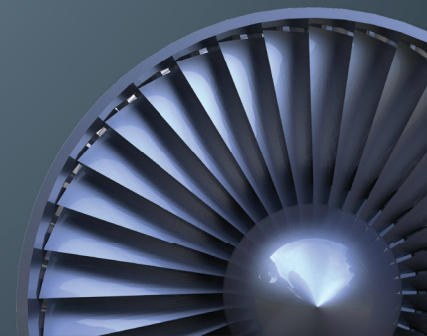
- Aerospace engineers
- Electrical and electronics engineers
- Industrial and manufacturing engineers
- Mechanical engineers
- Air pilot, flight engineer, and flying instructors
- Air traffic controllers and related occupations
- Electronic service technicians
- Mechanical engineering technologists and technicians
- Non-destructive testers and inspection technicians
- Structural metal and platework fabricators and fitters
- Technical occupations in geomatics and meteorology
- Aircraft instrument, electrical, and avionics mechanics, technicians, and inspectors
- Aircraft mechanics and aircraft inspectors
- Sheet metal workers technician
- Machinists and machining and tooling inspectors
- Welders and related machine operators
- Air transport ramp attendants
- Aircraft assemblers and aircraft assembly inspectors
- Airline ticket and service agents
- Material handlers
- Transportation route and crew schedulers



For more information on the Specialist High Skills Major Aviation & Aerospace program, contact your school guidance counsellor, SHSM board lead or visit [Ontario.ca/SHSM](https://Ontario.ca/SHSM)



YOUR SKILLS,  
FUTURE.

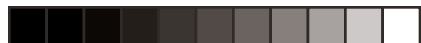


YOUR SKILLS,  
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# AVIATION & AEROSPACE







### Sector Overview

Ontario's aerospace industry has a proud history of innovation and technology leadership. It is home to over half of the world's top 25 aerospace companies and provides parts or designs for virtually every commercial aircraft. Private-sector companies, researchers, innovators and governments are igniting the industry's growth with technological innovation, supply chain services, and workforce skills development.

## THE EXPERIENCE

**Students in the Aviation and Aerospace Specialist High Skills Major program will:**

- Develop aviation skills through in-class flight simulations
- Network with pilots, airline mechanics and other airport staff to learn about flight operations (e.g., pilot training, airport services, air traffic control, and space and equipment handling)
- Visit to postsecondary institutions offering aviation and aerospace programs
- Participate in experiences and certifications to further understand all the aviation industry related jobs

## CREDITS

### Course Package

Each SHSM program offers students a bundle of 8 - 10 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 Aviation and Aerospace sector.

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



### The bundle includes:

- **4 “major” credits** in Aviation and Aerospace in grade 11 and 12
- **Supporting credits:**
  - > 1 Grade 12 English credit or 1 Grade 11 English credit
  - > 1 Grade 11 Math credit or 1 Grade 12 Math credit
  - > 1 Grade 11 or 12 Science, Business Studies or Canadian & World Studies credit
  - > 2 Cooperative Education credits to experience life in the Aviation and Aerospace sector



### Achievements in the Program

- **Certifications and Awareness Training:** Students complete selected sector-recognized certifications related to the major
- **Experiential Learning Opportunities:**
  - > Have the opportunity to job-shadow industry professionals
  - > Complete 2 Cooperative Education credits and get work experience in the Aviation and Aerospace sector
  - > See guest speakers, go on field trips to explore careers in Aviation and Aerospace
- 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 6 hour activity, delivered with a sector partner and have an experiential and an assessment component
- **Reach Ahead Experiences:** Explore the field and postsecondary education opportunities in the Aviation and Aerospace sector
- Completing the SHSM program prepares students for their pathway to **apprenticeship, college, university or work**