



# CAREERS IN MINING

- Construction millwrights and industrial mechanics
- Heavy-duty equipment mechanics
- Industrial electricians
- Machinists and machining and tooling inspectors
- Geological engineers
- Geoscientists and oceanographers
- Mechanical engineers
- Mining engineers
- Industrial instrument technicians and mechanics
- Mechanical engineering technologists and technicians
- Central control and process operators, mineral and metal processing
- Geological and mineral technologists and technicians
- Heavy equipment operators (except crane)
- Inspectors and testers, mineral and metal processing
- Mine labourers
- Other trades helpers and labourers
- Underground mine service and support workers



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



YOUR SKILLS,  FUTURE.



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# MINING





### Sector Overview

The Mining sector in Ontario provides a broad scope of employment and entrepreneurial opportunities, generating more than \$10.7 billion in 2019. The largest producer in Canada of gold, platinum group metals, nickel and the second largest producer of copper. Ontario is also one of the safest Mining jurisdictions in the world.

## THE EXPERIENCE

### Students in the Mining Specialist High Skills Major program will:

- Network with Mining Professionals and Tradespeople to better understand the jobs and skills required
- Visit local Mining Operations or learn Mining through Virtual Experiences
- Develop industry knowledge by attending Mining Conferences and/ or seminars
- Participate in Mining related competitions (eg. Mine Rescue Competition)

## 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 Mining 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 Mining 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 or Canadian & World Studies credit
  - > 2 Cooperative Education credits to experience life in the Mining 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 Mining sector
  - > See guest speakers, go on field trips to explore careers in Mining
- Gain a **Sector Partnered Experience** (SPE) component that includes one of the following options: Innovation Creativity and Entrepreneurship (ICE) training; sector-delivered contextualized 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 Mining sector
- Completing the SHSM program prepares students for their pathway to **apprenticeship, college, university or work**