



MINERVA
Safety Management Education

Presentation to the
Board of Canadian Registered Safety Professionals
National Education Symposium

May 8, 2023

Tony Pasteris P. Eng.
President – Minerva Canada

Larry Masotti CRSP
Vice President – Minerva Canada

www.safetymanagementeducation.com

**MINERVA
CANADA**

Health & Safety
is a Mindset



MINERVA

Safety Management Education

BY THE NUMBERS

1,125

Engineering/Business
Professors from 52 post-
secondary schools have
attended our Learning Forums

92%

of Professors attending our
Learning Forums use
Minerva teaching materials

64%

of Minerva annual
revenues come from
corporate sponsors

- A non-profit, volunteer-run organization with Canada wide representation
- Business, professional organizations, academia, government sponsors and Board of Directors
- Mandate – Be a global leader in health & safety management education by influencing post-secondary curriculum to ensure future engineering & business leaders create healthy & safe workplaces

Minerva Canada's Educational Programs

“Stronger networks, better understanding, more inclusion of H&S”

- Health and Safety Learning Forums for Engineering, Business Professors
 - 1800 attendees from over 52 universities & colleges since 2004
- Case studies focused on Health & Safety issues – 47 on website
- Engineering Student Health and Safety Teaching Modules – 24 on website
- Three Engineering and Business student competitions
- Numerous Minerva sponsored student projects, seminars each year
- Minerva webinar program initiated November 2018. Three webinars in 2023: *“Using Empathic Leadership to Tackle Today's Most Pressing Workplace Challenges”*
- Minerva online H&S courses and modules – initiated in 2017.



MINERVA

Safety Management Education

Minerva Canada – Rising Star Award Program

- Minerva Canada sponsored a new Rising Star award in 2022 as ***Education partner*** with Canada’s Safest Employers award venue.
- Award is open to all full time students in Canadian post-secondary schools and employees with 2 years or less work experience since graduation.
- Nominees demonstrate leadership ability to initiate and implement change in an academic or work environment related to health or safety – through continuing education, academic/work projects, generating student/worker H&S awareness or mentoring.
- Submissions extended for OHS schools until **May 15, 2023**
- In person awards ceremony in October, winners from school or company are profiled in Canadian Occupational Safety magazine.



MINERVA

Safety Management Education

Minerva Canada Online H&S Certificate Program

Initiated in 2017: Endorsed by Engineering Deans and Minerva industry, government, sponsors. Twelve engineering schools partnered in development.

“White Paper” developed with desired student competencies and 8 focus areas consistent with the BCRSP blueprint.

- | | |
|--|-------------------------------------|
| 1. Applied Safety Fundamentals | 5. Human Factors, Ergonomics |
| 2. Hazard and Risk Management | 6. Occupational Hygiene |
| 3. Personal Safety, Health and Wellness | 7. Leadership and Systems |
| 4. Law, Ethics, Professional Responsibility | 8. Design for Safety |

Four interactive online courses complete with quizzes and assignments

28 modules in total, approximately 50 to 65 hours online training.

Content from Minerva – Course design from University of Fredericton.



MINERVA

Safety Management Education

Minerva Canada Online H&S Certificate Courses

- Courses appropriate for use within academia, industry and associations
 - Pilot training programs recently completed with over 500 employees from small/medium sized companies and the Canada Post Corporation.
 - **90%** + satisfactory rating on course content from participants
- Courses, modules can be selected by professors and students in any order they choose. Minerva does not mandate course selection or sequence.
- Licensing fee of 5-10 dollars per student per year; Minimum \$4000 per year. Assumes SCORM files are uploaded on your school's learning platform.
- Minerva is prepared to assist with a co-branded certificate upon completion of any course, integrated courses or program.



MINERVA

Safety Management Education

Organizations accessing Minerva Online Modules:

- **University of Toronto**, Faculty of Engineering
- **Laurentian University**, Goodman School of Mines and Engineering Faculty
- **George Brown College**, Angelo Del Zotto School of Construction Management and School of Engineering Technologies
- **Ontario Tech University** – Faculty of Engineering and Applied Science
- **University of Fredericton**
- **University of Saskatchewan**, College of Engineering & Professional Development
- **Ontario Society of Professional Engineers** – Engineering Academy
- **Canada Post Corporation**
- **Canadian Society of Safety Engineering**

Discussions in Progress:

- Various Canadian Universities and Colleges
- Minerva Canada webinar and pilot training participants from industry
- Royal Roads, Calgary University - Professional & Continuing Studies
- Ontario H&S associations (WSPS, IHSA)
- Ontario Ministry of Education
- Ontario Ministry of Labour, Immigration, Training and Skills Development (MLITSD)
- Learning Pool Organization Partnership – International opportunities
- Bluedrop Learning Systems – Domestic opportunities



MINERVA

Safety Management Education

What students are saying after taking Minerva courses...

*“Health and safety training lay the foundation of everything we do and they **both** must be regarded with the utmost importance.”*

*“My **attitude changed**. Before I thought it was not that important but now health and safety are always number one in my mind.”*

*“The content was amazing. I am a **seasoned** safety professional with multiple designations and I learned a lot from this!”*



MINERVA

Safety Management Education

Course 100: *(approx. 11 to 14 hours)*

- Health and Safety 101 – the fundamentals
- Hazards, Risk and Controls – an introduction
- Applying the above concepts, definitions & controls to:
 - Electrical Safety, Fire Safety, Laboratory Safety, Working at Heights

Course 200: *(approx. 11 to 15 hours)*

- Hazard Identification (continuation of course 100)
- Risk Management (continuation of course 100)
- Legislation, Codes, Standards
- Mental Health in the Workplace and Academia
- Leadership and Management Systems
- Incident Investigation, Causal Analysis
- Professional Ethics (case study, continuation of course 100)

www.minervasafetymanagementeducation.com



MINERVA

Safety Management Education

Course 300: *(approx. 14 to 18 hrs.)*

- Hazard Identification (more discussion from various energy sources)
- Risk Management (hierarchy of controls for above hazards)
- Codes and Regs. (discussion of content contained in various codes)
- Human Factors
- Incorporating Safety into Engineering Design
- Business Case for Safety
- Professional Ethics (case study, continuation of course 100, 200)

Course 400: *(approx. 15 to 19 hrs.)*

- | | |
|----------------------------------|-------------------------|
| ▪ Process Safety Management | Electrical Safety |
| ▪ Radiation Safety | Robotics Safety |
| ▪ Risk and Crisis Communications | Management of Change |
| ▪ Health and Wellness | Managing H&S Excellence |

www.minervasafetymanagementeducation.com



MINERVA

Safety Management Education

Current Minerva Course Access Options:

- Proprietary Learning Management System
 - i.e. your organization's LMS
- Bluedrop  **skillspass**[™]
 - Individual Access with a digital credentialing system
- Ontario Society of Professional Engineers
 - Member and non-member access



ONTARIO
SOCIETY OF
PROFESSIONAL
ENGINEERS



MINERVA

Safety Management Education

Some Final Comments and Opportunities:

- As a volunteer-driven organization, Minerva Canada believes it has done much to advance Health & Safety, but the need continues.
- Minerva Canada remains very appreciative of the BCRSP's long standing support and continuing sponsorship.
- Your school's participation in Minerva's Rising Star Award program.
- Industry and professional associations like the BCRSP and its members remain essential partners with Minerva Canada to further advance Health and Safety education for post-secondary students:
 - Opportunities for temporary course access can be made available.
 - CPD recognition is available for Minerva's online H&S modules taken by CRSP & CRST certificants.
 - A Leadership certificate focused on health & safety is in development.



MINERVA
Safety Management Education

Questions or Comments...

Tony Pasteris P. Eng.
President – Minerva Canada

Larry Masotti CRSP
Vice President – Minerva Canada

www.safetymanagementeducation.com

Email: minerva@safetymanagementeducation.com