

Overview of MISHC Risk and Critical Control Course

Course Name, Aim and Objective	Target Audience	Mode
RCCM: Risk and Critical Control Management		
<p>Course Aim: To provide students with the latest knowledge and skills to understand how critical control management processes can benefit and enhance current risk management systems.</p> <p>Learning objectives:</p> <ol style="list-style-type: none"> 1. Provide a recap of overarching risk management processes and current findings related to serious industry incidents. 2. Understand the underlying principles and leading practices associated with critical control management. 3. Discern and critique quality bowtie and control analyses. 4. Define critical control selection and specification requirements. 5. Describe attributes associated with the effective implementation of a critical control management system. 	<p>Personnel involved in the management and reporting of risks, controls, and control support activities.</p>	<p>1 day delivered face-to-face or online as self-paced course.</p>

Content delivered

FUNDAMENTALS OF RISK MANAGEMENT

1. History of Risk Management
2. Relevant legislation and standards
3. Current status

THE CRITICAL CONTROL APPROACH

4. Overview of the critical control approach
5. Identifying and scoping MUEs
6. Selecting controls using bowtie analysis
7. Identifying critical controls
8. Critical control specification

EFFECTIVE IMPLEMENTATION

9. Integrated implementation practices
10. Recording, reporting and improving control of critical risks

Learning Outcomes

- Awareness of critical control approach and underpinning principles
- Practice reviewing, critiquing and identifying improvement opportunities for
 - Identifying and describing critical risks
 - The bowtie analysis of a critical risk
 - Selecting and specifying an example critical control
- Awareness of how critical control management could be integrated into business processes and the roles and responsibilities associated with effective implementation
- Assessing the critical control management maturity status of their part of the business and the identification of actions to improve

Note: Course is continually updated to reflect latest research and guidance materials on critical risk and control management, high risk industry supervisory competencies and adult learning preferences.

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Presenters Introductions



Maureen Hassall

Professor and Director – SMI MISHC and director – UQ RISK

Researcher, teacher, consultant in risk, system safety and human factors across high hazard industries with a passion for improving the design and management of work so it is safe, healthy, and rewarding for a diversity of workers.

I have been researching, teaching, consulting and facilitating workshops on risk and critical control management for over a decade.

Has over 30 years of industry experience in mining, metals manufacturing, chemicals, oil and gas, and other high hazard industries working in Australia, Canada and New Zealand.

Chartered and Registered Professional Chemical Engineer (RPEQ), a Certified Practising Ergonomist and a GAICD with bachelor's degrees in engineering and psychology, MBA and human factors PhD.



Glenn is a Professional Engineer based in Sudbury, Ontario. Glenn earned a B.Sc and M.Sc in Mining Engineering from Queens University in Kingston. Throughout his career, he has dedicated 33 years to Vale (formerly INCO) in various capacities, most notably in engineering, operations and safety. For the past eleven years, he has worked as a Director with MIRARCO Mining Innovation, a not-for-profit applied research organization located on Laurentian University campus, delivering innovative solutions to mining industry challenges.

With MIRARCO, Glenn works in the field of Health, Safety and Risk Management, with focuses in the delivery of the Global Mining Industry Risk Management Program (GMIRM) training, safety risk management facilitation, and the evaluation and recommendation of health and safety research projects. Glenn is also an active participant in the CIM. Glenn has been part of the CIM Distinguished lecturer program. Glenn, on behalf of MIRARCO, manages and presents MISHC courses on risk and safety in Canada.

Location: Executive Learning centre, Laurentian University

Date / Time: May 25, 2026 8:00am – 4:00pm (lunch will be served)

Cost: \$750 per person plus HST

Any questions contact glyle@mirarco.org


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