

EMLI - Mine Safety Technology Award Application Form

Disclaimer: This form may be subject to Freedom of Information requests, do not include private/sensitive information

MINE INFORMATION

Mine Name & Mine #:		Mine Manager:	
Mine Location:		Contact Information:	
Mine Type:		Total # of Workers (include contractors):	

SCREENING CRITERIA

EXECUTIVE SUMMARY The summary must be brief; do not exceed 350 words. Include the background and description of the hazard(s), length of exposure to the hazard, the new technology/innovation, and the implementation date.
Note: This summary may be used in communications to describe award winners, so, it must not contain any private or confidential information.

OPERATION DETAILS Provide a brief description of the mining operation and method; do not exceed 250 words:

THE HAZARD & SEVERITY

E.g. A carcinogen is a hazard - the process creates a high risk of exposure above the regulated limits as demonstrated by exposure monitoring results.

What are the hazard(s) and risks associated with the process?

How were the hazard(s) identified? Did you use leading or lagging indicators (Audit/assessment, a near miss, injury or fatality, JOHSC/OHS Rep meeting, incident reporting, etc.)?

What is the severity of the hazard(s), and what level of mitigation is provided by the "new" technology?

Is the risk eliminated or reduced? (See the Mine Safety Technology Award Rubric for reference)

Note: Mines may provide drawings, plans, videos, photos of the technology – please attach to the application email

TECHNOLOGY

Note: Provide a risk assessment from before and after the implementation of the technology

What is the technology, and how does it work?

Is the technology new, or is it existing technology that has been innovated or improved or used in a new way?

BENEFIT(S)

Note: A measurable benefit must be demonstrated

How does the technology make the task/work safer?

Is the "new" technology effectively mitigating the risk of the hazard?

What other benefits, if any, have been realized/created?

How many people (percentage of workforce), including the type of worker/role, does the technology impact?

COMPLEXITY, DESIGN, IMPLEMENTATION & CHANGE MANAGEMENT

Who (role only) was involved in the design process (E.g. P.Eng, mechanic, electrician, operator)?

How was the JOSHC/Rep involved during the design and implementation process?

What level of research and design work was needed; describe the project's complexity?

E.g. significant investment into R&D, canvassed other industries and industry partners, staff brainstorming session

Was a change management process/implementation plan used and followed throughout the entire process?

Were workers involved in the change management process and implementation plan?

E.g. were the workers consulted, sought for input, and/or trained in the new technology

EXPECTATION	RATING <i>Please use this rubric to self-assess your project, include a score for each category and a total score.</i>					SCORE
	5	4	3	2	1	
New/Innovative safety technology	Original technology and has been shared with others in industry (i.e. patents, shared, open market)	Original technology (not shared)	Major improvements to existing technology for new use	Minor modification and improvement to old technology for new use	Slight modification to old technology for new use	
The benefit to worker health & safety	Completely mitigates the risk of the hazard	Significantly reduces the risk of the hazard	Reduces risk to an acceptable level, the task still requires minor mitigation strategy	Some reduction in risk; however, mitigations still required to complete the task safely	Little to no risk reduction of the hazard	
Level of mitigation	The technology prevents loss of multiple lives	The technology prevents loss of life/occupational disease	The technology prevents life-altering/major injury	The technology prevents any injury resulting in medical aid	The technology prevents minor injury resulting in first aid	
Demonstrated risk reduction from the safety technology	Benefit and risk reduction proven through quantifiable results obtained through internal study/analysis	Some benefit and risk reduction proven through measurable results; however, data supports foreseeable benefit and risk reduction	No measurable benefit; however, a study/analysis that shows a foreseeable benefit and risk reduction	Anticipated risk reduction based on informal analysis	Reduction in risk anticipated with no data to support	
Other measurable benefits	Mitigates the risk from other hazards and improves overall process, profitability, OHS culture, worker wellness, reduces environmental impact	Significantly reduces the risk from other hazards and improves the process & OHS Culture	Reduction in risk from other hazards identified and some improvement to OHS Culture	Minor reductions in risk from other hazards & no improvement to OHS Culture	Little to no reduction in risk from other hazards or created new hazard(s)	

Design process	Designed/reviewed by qualified professionals	Designed in-house with professional guidance	Designed in-house using good design techniques	Some design principles followed	No formal design process followed	
Change management & implementation	From design to implementation stage, use of a formal change management process & implementation plan that included active worker input/involvement	From design to implementation stage, use of a formal change management process & implementation plan; some worker input throughout the stages	Change management process & implementation plan used; worker involvement at the implementation stage, i.e. training	In-format change management process & implementation plan followed; limited worker involvement	No change management process or implementation plan used	
JOHSC/Employee representative involvement	JOHSC/Rep involved throughout the entire process	JOHSC/Rep involved in most of the process	Some JOHSC/Rep involvement	Very little JOHSC/Rep involvement	No JOHSC/rep involvement, just informed of the work	
Project complexity, effort & intricacy	Highly complex project or design process, overcame many challenges, and significant effort into research & development using critical thinking and analysis	Very complex project or design process, overcame some challenges and invested in research & development	Complex project/design process with some challenges	Some complexities that required planning, but no challenges to overcome or investment required	Not complex, and little to no planning required	
How many people does the technology impact?	>51% of the workers	35%-50% of the workers	20%-34% of the workers	5%-20% of the workers	<5% of the workers	
TOTAL						/50