

Annex I Risk assessment sorting matrix

Consequence

	Low	Minor	Moderate	Major	Severe
Safety	First-aid	Medical-aid	Lost Time Injury (LTI)	Permanent disability	Fatality
Health	Reversible health effects (e.g. dizzy, headache, minor irritations, etc.) Comparable to first-aid Below detectable limits	Reversible health effects (e.g. skin, eye, mucous membrane, sunburn, etc.) Comparable to medical-aid Below action limits	Serious reversible health effects (e.g. Musculoskeletal Disorders (MSD), heat exhaustion, vibration effects, etc.) Comparable to LTI Between action limits and Occupational Exposure Limits (OELs)	Irreversible health effects and illness (e.g. hearing or respiratory impairment, etc.) Above OELs	Immediately dangerous to life or health (IDLH) (e.g. asphyxiation, poisoning, etc.) Severe life shortening illness (e.g. carcinogens, mutagens, etc.)
Environment	Near source onsite, confined and prompt recovery No impact	Near source onsite, confined and short term recovery Minor damage	Moves offsite, confined and prompt recovery Moderate damage	Moves offsite, confined, short term recovery Major damage or prosecution	Moves offsite, unconfined, permanent damage Catastrophic damage or close operation
Facility	<\$1K equip. & property damage	\$1-\$10K equip. & property damage	\$10-\$100K equip. & property damage	\$100K-\$1M equip. & property damage	>\$1M equip. & property damage

Probability of occurrence	Low	Minor	Moderate	Major	Severe
Certain Expected to occur most times (>1/yr.)	M (5)	H (10)	C (15)	C (20)	C (25)
Likely Probably occur most times (1-2 yrs.)	M (4)	H (8)	H (12)	C (16)	C (20)
Possible Should occur some times (2-10 yrs.)	L (3)	M (6)	H (9)	H (12)	C (15)
Unlikely Could occur at some times (10-25 yrs.)	L (2)	M (4)	M (6)	H (8)	H (10)
Rare May only occur at exceptional times (facility lifetime)	L (1)	L (2)	L (3)	M (4)	H (8) ²
					M (5) ³

Guidance for resultant scores obtained from: steps 3, procedures 1.3, 1.5, and 1.7:

Based on the risk assessment, identify the risk classification level and the types of actions to be taken:

Critical (15-25)

- Intolerable – no work permitted until the task has been changed to reduce the risk and controls have been implemented

High (8-12)

- High risk – implementation of risk controls is required
- Prepare proposed action plan with reasonable due dates for completion

Moderate (4-7)

- Tolerable – consider controls
- Monitor on a routine schedule for changes
- Improvements may be considered for implementation

Low (1-3)

- Negligible – no risk reduction action required

² During step 3 of the Risk Register process (inherent risk), any risk rating involving a severe consequence warrants a score of “8” (high risk) and will have current controls identified for the purposes of assessing residual risk.

³ Subsequent risk ratings (residual, etc.) with rare probability but severe consequence receive a score of “5”.

