

Risk Assessment Matrix

Integrated Safety utilizes the following risk assessment matrix and criteria when assessment identified hazards. The end goal should always be, where feasible, to lower any hazards scoring a Red (4) and/or an Orange (3) down to a yellow (2) or green (1) score. Yellow (2) scores are may potentially be lowered where feasible and realistic opportunities are available.

Integrated Safety Risk Assessment Matrix					
Hazard Severity	Hazard Probability				
	Frequent	Probable	Occasional	Remote	Improbable
Catastrophic	4	4	4	3	2
Critical	4	4	3	2	2
Marginal	3	3	2	2	2
Negligible	2	2	1	1	1

Hazard Probability

Frequent – Likely to occur frequently
Probable – Will occur several times during life of operation
Occasional – Likely to occur sometime during life of operation
Remote – Unlikely but possible to occur
Improbable – So unlikely, may assume it will never occur

Hazard Severity

Catastrophic – Capable of causing death or serious permanent illness
Critical – Could result in serious injury or illness
Marginal – Could result in a minor injury or illness
Negligible – No foreseeable injury or illness

Hierarchy of Controls

Integrated Safety strives to utilize the hierarchy of controls when mitigating risk or implementing opportunities. A top-down approach should be utilized but striving for the highest level of protection feasible (highest = number 1, Lowest = number 5).

1. Elimination (To eliminate or remove the hazard)
2. Substitution (Replace the hazard in a way which lowers or removes the risk)
3. Engineering Controls (Isolates the employee from the hazard)
4. Administrative Controls (Change the way employees work)
5. Personal Protective Equipment (Protect the works with PPE)