

Integrated Safety Management Program:

7 Guiding Principles of ISM

- Balanced Priorities
- Operations
- Authorization Clear Roles and Responsibilities
- Line Management Responsibility
- Competence Commensurate With
- Hazard Controls Tailored to Work Being Performed
- Identification Of Safety Standards And

5 Core Functions

1. Define Scope of Work
2. Analyze Hazards
3. Develop and Implement Hazard Controls
4. Perform Work within Controls
5. Provide Feedback and Improvement



A strong resilient safety culture is

This foundation must include:

- Commitment at all levels
- Safety should be treated as an investment, not an expense
- Safety development through effective training and education
- An integrated system for risk assessment, prevention and control
- Addressing every reported safety concern and deficiency
- A blame-free work environment

Every Job, Project or Task Has Some Residual Risk

Low

- Safety controls can be planned by the worker.
- Proceed with supervisor authorization.

Low-Medium

- Safety controls are planned by both the worker and supervisor.
- A second worker knowledgeable of the task and hazards is in the vicinity.
- Proceed with supervisor authorization.

Medium

- Have the Safety Department review and approve the completed THA.
- A written and approved procedure may be required by the Safety Department.
- Two qualified workers must be in place before work can proceed.
- Limit the number of authorized workers in the hazard area.

Medium-High

- Have the Safety Department review and approve the completed THA.
- A written and approved procedure is required and must be authorized by the Safety Department and the MagLab Director or his/her designee.

High

- The activity will not be performed



**Asses the Hazard
Level for the job,
project or task**

Hazard Assessment Matrix		Complexity		
		Simple	Moderate	Difficult
Familiarity Level	Very Familiar	1	2	3
	Somewhat Familiar	2	3	4
	Unfamiliar	3	4	5

**Define Residual
Risk using assessed
hazard level and
(worst case scenario)
consequences**

Integrated Safety Management Risk Assessment Matrix					
Assessed Hazard Level	Consequences				
	Negative	Minor	Moderate	Significant	Severe
5	Low Med	Medium	Med High	High	High
4	Low	Low Med	Medium	Med High	High
3	Low	Low Med	Medium	Med High	Med High
2	Low	Low Med	Low Med	Medium	Medium
1	Low	Low	Low Med	Low Med	Medium



Tasks	Potential Hazards	Controls	Residual Risk	Authorizations
			HAZARD CONSEQ	
			RESIDUAL	
			HAZARD CONSEQ	
			RESIDUAL	
			HAZARD CONSEQ	
			RESIDUAL	

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