



Operational Excellence Services

Health · Safety · Environment
(HSE)

HSE Risk Management



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 <https://www.jgc.com/en/business/epc/operation-maintenance/service/>

HSE Risk Management

Do you have any of these issues?

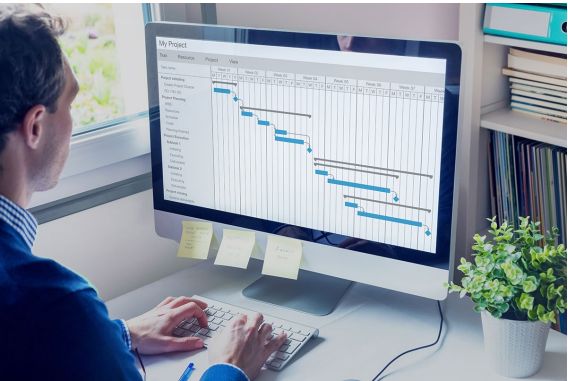
- ☹ **Formalizing facility safety**
- ☹ **Process and operational safety concerns**
- ☹ **High insurance fees**

HSE Risk Management Solutions

- Justify safety using a prescribed process, which includes:
 - Formal Safety Assessment
 - Quantitative Risk Analysis (QRA)
 - Hazard Identification (HAZID)
 - Hazard and Operability Studies (HAZOP)
 - Layer of Protection Analysis (LOPA)
 - Bow-tie Analysis
 - Operational Hazard Assessment/Reduction Study
 - HSE Management System Review

Hazard Assessment		Potential Hazards		Previous Hazards (Incidents/Near Misses)
		General	Process	
Hazard Identification		HAZID	HAZOP	OHR *
Risk Assessment	Qualitative	HAZID	HAZOP	OHR *
	Semi-Quantitative	LOPA		
	Quantitative	Consequence Analysis / QRA		

* OHR : Operational Hazard Reduction Study

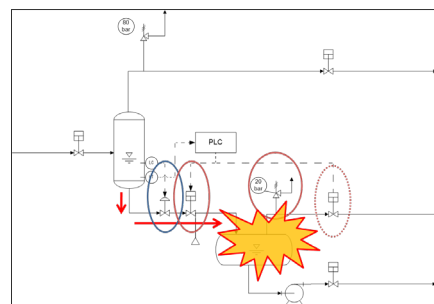
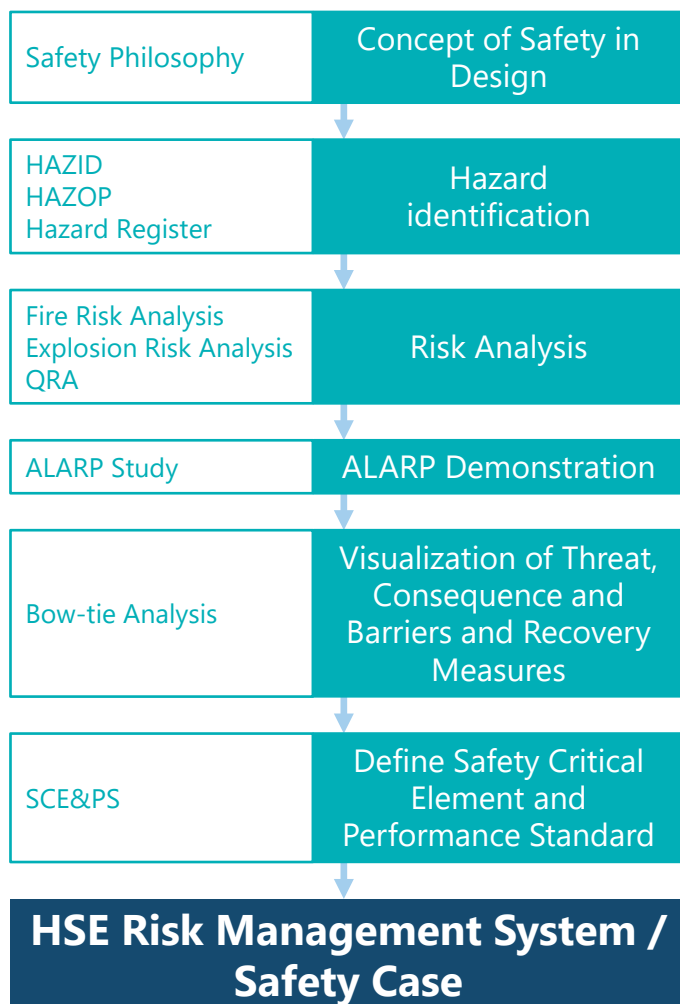


Combination of Desk-top Study and Workshop

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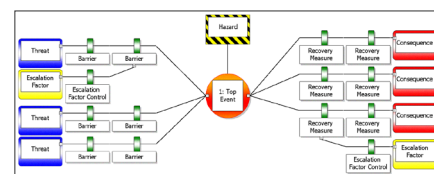
Workflow & Results



Hazard Identification in P&ID



QRA



Bow-tie Diagram

Our Strengths

- Professional Safety, Process, Control, Mechanical, Operation and Maintenance Teams
- Top global experience of EPC execution
- Plant types** - Refinery, Gas Processing, LNG, Chemical
- Plant locations** – Onshore, Offshore
- Clients** – IOC, NOC
- Huge record of HAZID/HAZOP and Operational Hazard Reduction

Our Experiences

20+
Cases

20+ HAZOP revalidation, OHR, and HSEMS development

500+
Cases

500+ Process safety plant design