

# Safety & Risk Management in MAH Installations

3-day Comprehensive Training





The Gujarat Institute of Disaster Management (GIDM) is registered as an autonomous society under the Government of Gujarat. The Institute has been entrusted with the responsibility of human resource development, capacity building, training, research and documentation in the field of Disaster Management. GIDM has received approval from DISH under Section 111-A (ii) of the Factories Act, 1948.

## PI FOUNDATION TRUST

PI Foundation Trust, a Charitable Trust set up on 4th July 2012 has been working consistently with a philosophy to create equity in society through values of Caring, Sharing and Growing at its core. We are committed to align impact of our programs towards Sustainable Development Goals and contribute in the process of Nation Building.



## WHY BUILD THE CAPACITY?

The rapid industrialization in Gujarat, particularly in the chemical sector, has brought many benefits to the state, including job creation and economic growth. However, it has also led to an increase in the risk of hazardous chemical incidents. This risk is further exacerbated by the fact that Gujarat is vulnerable to natural hazards.



In the past, incidents like the 2020 explosion at Yashashvi Rasayan Pvt. Ltd. in Dahej and the 2022 blaze at Anupam Rasayan India Limited factory in Sachin GIDC, Surat, as well as the tragic Bhopal Gas Tragedy, have vividly demonstrated the devastating consequences of such events on the environment, public health, and the social fabric of communities. These incidents result in loss of life, damage to natural resources, and often trigger public outcry and legal actions, which can further erode trust in the civil governance system.



Chemical industry accidents trigger a chain of devastating effects, including fires, toxic leaks, and spills, putting lives at immediate risk, contaminating the environment, and causing significant economic damage. These incidents erode trust in institutions and prompt legal actions. To mitigate these consequences, rigorous safety measures, capacity building, and effective disaster management are crucial.

To prevent such incidents, a comprehensive understanding of existing and future risks, along with holistic measures, is necessary, taking into account geological, atmospheric, ecological, psychological, and social components. Addressing the imperative need for risk reduction in the face of potential chemical disasters is crucial, given the substantial number of registered factories and recorded accidents. The ramifications of these disasters extend to

life, health, and the environment, emphasizing the importance of gaining a deeper understanding of present and future risks and implementing effective mitigation measures. In this context, capacity building becomes a crucial component, necessitating the development of a strategic framework that integrates environmental risk management into the broader multi-hazard risk reduction system. This program plays a pivotal role in advancing these objectives.

To address this pressing need, GIDM is collaborating with PI Foundation Trust to organize a capacity-building program titled **'Comprehensive Training on Safety and Risk Management in MAH Installations.'** This program represents a pivotal step in the assessment and mitigation of risks associated with Major Accident Hazard (MAH) Industries, enabling effective responses to chemical emergencies.



## LEARNING OBJECTIVES

- To orient the chemical industries about the potential risks associated with chemical hazards and the importance of hazard identification and risk assessment in industries in ensuring a safe and secure work environment in Major Accident Hazard (MAH) installations.
- To equip participants with a comprehensive understanding of the principles and concepts of risk assessment in MAH installations, including emergency response strategies in the event of accidents.
- To familiarize participants with various methods and techniques used for assessing risks associated with industrial processes and activities, including exercises for effective risk evaluation.
- To enhance participants' knowledge of Chemical/Industrial Disaster Risk Management (CIDRM) at industrial level, covering emergency management protocols and incident response procedures.
- To promote a proactive approach towards risk management and create a culture of safety in industrial environments.



## PROGRAM COVERAGE



1

This training program is intended to help employers prevent and control MAH incidents by imparting guidance to the employers for identifying the workplace major accident hazards for improving the overall safety performance of the installations.



2

### Key Topics

- Criteria for installations to be MAH
- Hazard identification and risk assessment
- Control of the causes of major industrial accidents
- Safe Operation of major hazard installations
- Emergency planning
- Case studies



## TARGET PARTICIPANT

The target participants for the training program are the MAH Factories, chemical, petrochemical, pharmaceutical, and agrochemical industries. The program is designed for safety officers, health, safety, and environment (HSE) officers, fire officers and concerned stakeholders working in these industries.



## FACULTY

The faculty for the training program will comprise of Experts from Industry, Academia, DISH, GIDM and GPCB and experienced faculties from the respective field.

## PROGRAM FEE & VENUE

Program Venue:	GIDM, Gandhinagar
Program Duration:	3 Days
Program Fee:	₹5,000/-

### Technical Partners



**Director Industrial Safety and Health**  
Labour, Skill Development & Employment Department  
Government of Gujarat



Gujarat Pollution Control Board

### Knowledge Partners



Approved by DISH: Section 111-A (ii) of The Factories Act, 1948





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