Foundation

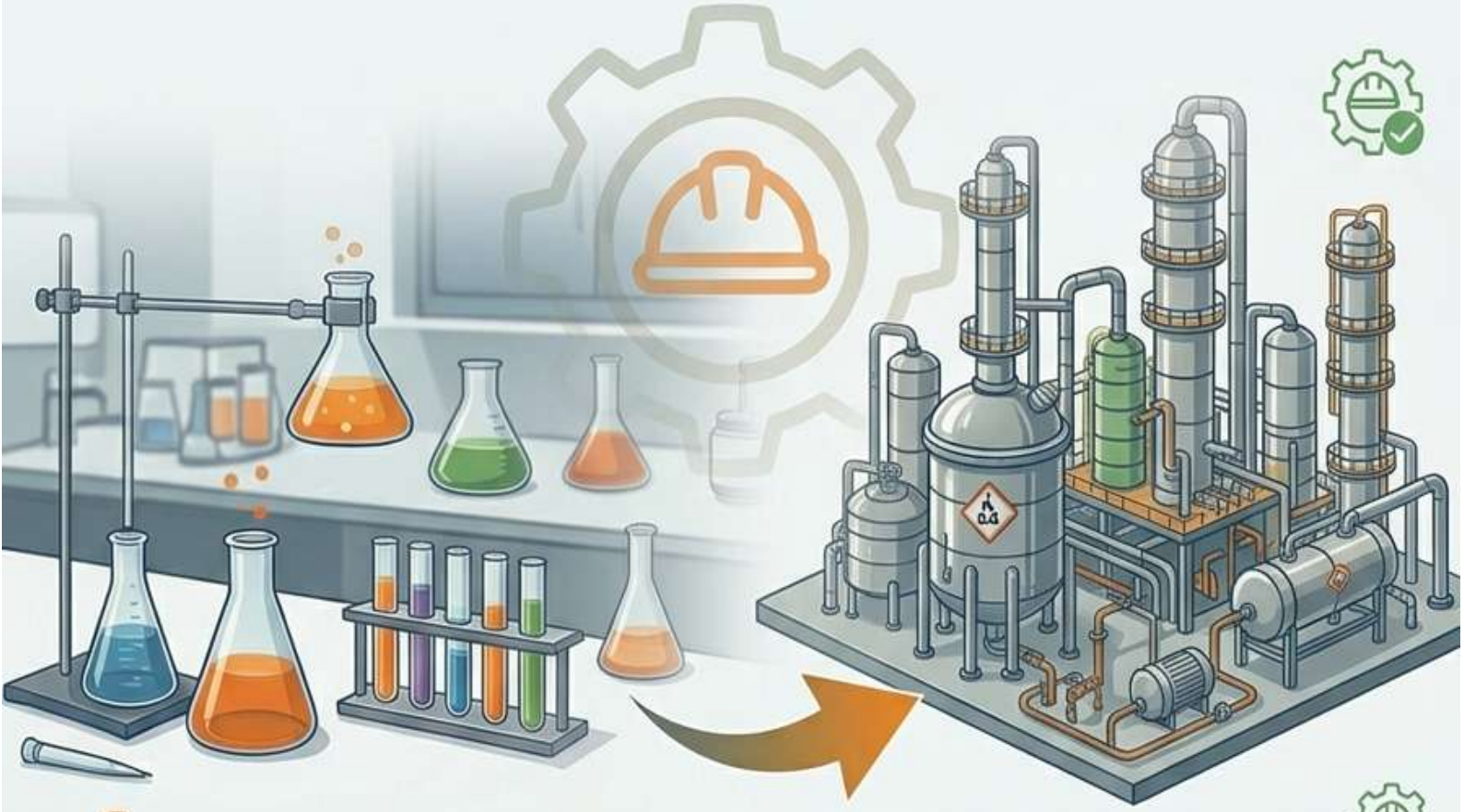
GUJARAT INSTITUTE OF DISASTER MANAGEMENT
BUILDING RESILIENCE

One-Day Training Program

Process Safety in Scale-Up Operations

From Laboratory Success to Safe Commercialization

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



26 May 2026

GIDM Campus

Organized by

Gujarat Institute of Disaster Management (GIDM)

Under the aegis of the Centre of Excellence for Industrial Safety & Risk Management

WHY BUILD THE CAPACITY ?

Scaling up a chemical process from laboratory to commercial production is one of the most critical and risk-intensive phases of the product lifecycle. While laboratory experiments may demonstrate technical feasibility, inadequate safety considerations during scale-up can lead to runaway reactions, fires, explosions, toxic releases, and plant shutdowns.

In Gujarat, one of India's leading industrial hubs with a high concentration of chemical, petrochemical, pharmaceutical, and specialty chemical industries, the scale and complexity of operations significantly increase process safety risks—especially during scale-up and technology transfer phases.

With the presence of numerous Major Accident Hazard (MAH) units and continuous innovation in chemical manufacturing, there is a growing need to strengthen process safety competencies to prevent incidents, ensure regulatory compliance, and safeguard workers, communities, and the environment.

Building capacity in process safety during scale-up is therefore essential to ensure safe design, effective risk management, and reliable commercialization of chemical processes.

PROGRAM OVERVIEW

This one-day intensive program is designed to equip participants with practical knowledge, tools, and best practices required for safe scale-up, technology transfer, and commissioning. The program focuses on identifying scale-up risks early and applying structured safety approaches to prevent incidents.

LEARNING OBJECTIVES

1. Understand process safety challenges during scale-up
2. Identify hazards associated with scaling chemical processes
3. Apply structured risk assessment techniques
4. Interpret reactive hazard risks at a conceptual level
5. Integrate safety into technology transfer and commissioning

WHO SHOULD ATTEND

This program is designed or healthcare professionals, specifically targeting:

- Process Development & R&D Scientists
- Chemical & Process Engineers
- Scale-Up, Pilot Plant & Manufacturing Teams
- Process Safety & HSE Professionals
- Technology Transfer Teams

PROGRAM COVERAGE

This program is specifically designed to provide a comprehensive overview of process safety considerations during scale-up, combining conceptual understanding with practical application.

Key Topics:

- Introduction to Scale-Up and Process Safety
- Fundamentals of Scale-Up
- Hazard Identification in Scale-Up
- Risk Assessment and Control Strategies
- Scale-Up of Reactive and Hazardous Processes

LEARNING OUTCOMES

By the end of the program, participants will be able to identify scale-up-specific hazards, apply systematic risk assessment methods, understand reactive hazard risks, implement inherently safer design principles, and manage safety during technology transfer and commissioning.

Program Details

DATE	DURATION	VENUE
26 May 2026	1 Day	GIDM, Gandhinagar

REGISTER NOW

Scan the QR code to secure your seat

Date: 26 May 2026

Limited Seats Available

SCAN TO REGISTER

JOIN US TO

Strengthen your capability to safely scale chemical processes

and prevent high-impact industrial incidents.

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