

Online Professional Training Program on Process Safety Management (PSM) in Oil & Gas Operations

Program Agenda / Schedule (Tentative)

Date: 23–24 September 2026

Day 1 — 23 September 2026

Time	Session	Brief Objectives
10.45 – 11.00	Inauguration & Context Setting - About the Program - Opening remarks (GIDM & PNGRB)	To welcome participants, introduce the programme objectives and set the context.
11.00 – 11.30	NaTech Hazards and Disaster Risk Management in Oil & Gas Operations - Fundamentals of DRM - Climate change and emerging risks - NaTech hazard identification	To introduce Disaster Risk Management concepts with a focus on NaTech risks, highlighting how natural hazards can trigger industrial accidents and the need for integrated risk mitigation strategies.
11.30 – 12.15	Introduction to Process Safety Management (PSM) - Fundamentals and Principles of Process Safety - Process Hazards, Risk Identification, and Control Measures - Importance of Safety Culture and Regulatory Compliance in Oil & Gas Operations	To understand the difference between occupational safety and process safety, major accident hazards, and global Process Safety Management (PSM) frameworks.
12.15 – 12.30	Break	
12.30 – 13.30	Regulatory Framework in India - Overview of PNGRB Regulations and Safety Standards - Legal and Institutional Framework for Process Safety Management - Compliance Requirements and Enforcement Mechanisms in Oil & Gas Sector	To develop understanding of the PNGRB Act, Technical Standards and Safety Regulations (T4S), ERDMP Guidelines, and the role of statutory agencies.
13.30 – 14.30	Lunch Break	
14.30 – 15.30	Case Studies of Major Industrial Accidents - Lessons Learned from Major Industrial and Process Safety Accidents - Root Cause Analysis and Failure Investigation Approaches - Preventive Strategies and Risk Reduction Measures for Future Safety Management	To analyse major industrial accidents, their root causes, lessons learned, and preventive strategies for improving process safety.
15.30 – 15.45	Break	
15.45 – 16.45	Human Factors & Safety Culture - Human Behaviour and Its Impact on Process Safety - Building a Positive Safety Culture in High-Risk Industries - Leadership, Communication, and Workforce Engagement for Safety Excellence	To understand the role of human behavior, leadership, communication, and organizational learning in strengthening process safety.
16.45 – 17.00	Wrap-up — Day 1	

Day 2 — 24 September 2026

Time	Session	Brief Objectives
11.00 – 12.00	Hazard Identification & Risk Analysis - Techniques for Hazard Identification in Process Industries - Risk Assessment Methods and Consequence Analysis - Mitigation Planning and Risk Control Strategies	To introduce HAZID, HAZOP, What-if Analysis, and Bow-Tie approaches for hazard identification and risk assessment in process industries.
12.00 – 12.15	Break	
12.15 – 13.15	Process Safety Performance Indicators (PSPI) & Asset Integrity - Key Process Safety Performance Indicators and Monitoring Systems - Asset Integrity Management and Equipment Reliability - Inspection, Maintenance, and Failure Prevention Strategies	To develop understanding of safety indicators, monitoring systems, inspection and maintenance practices, and integrity management of industrial assets.
13.15 – 14.15	Lunch Break	
14.15 – 15.15	Asset Integrity & Mechanical Integrity - Inspection, Testing and Maintenance - Pipeline Integrity Management - Corrosion Control	To deliver knowledge about maintaining equipment integrity through inspection, maintenance, and risk-based approaches to prevent failure.
15.15 – 15.30	Break	
15.30 – 16.15	Emergency Response & Disaster Management (ERDMP) - Emergency Preparedness and Response Planning in Oil & Gas Operations - Incident Command, Coordination, and Crisis Communication Mechanisms - Disaster Mitigation, Mock Drills, and Post-Incident Recovery Strategies	To develop understanding of emergency preparedness, incident command systems, PNGRB ERDMP compliance, and coordinated emergency response mechanisms.
16.15 – 16.45	Integration of PSM with Business Continuity - Linking Process Safety Management with Business Continuity Planning - Operational Resilience and Strategies for Minimizing Downtime and Ensuring Safe Recovery	To understand the integration of process safety with resilience planning and business continuity in oil and gas operations.
16.45 – 17.00	Closing Session Summary of Key Learnings and Feedback	To conclude the programme and capture participant feedback.

Venue: Gujarat Institute of Disaster Management (GIDM), Raysan, Dist. Gandhinagar, Gujarat | Mode: Live Online Sessions