

AGENDA OF THE PROGRAM

DATE: 11-13 November 2025

Day 1:

Time	Session
10:30 - 11:00	Opening Ceremony and Introductory Remarks - Welcome note - Objective of the program
11:00 - 12:00	Understanding Basics of Disaster Risk Management - Key Concepts: Hazard, Risk, Vulnerability, Resilience - National Disaster Management Act (2005 & Amendment 2025) - Global Frameworks (Sendai, UNDRR, SFDRR, UNFCCC linkages)
12:00 – 12:15	Tea/ Coffee Break
12:15 – 13:30	Hazard Identification & Risk Assessment - Introduction to PNGRB ERDMP Framework - Salient Points of PNGRB Regulations 2010 (Annexures, Checklists and Schedule) - Classification of Emergencies (Level I–III) - Onsite/Offsite Hazards + Use of MSDS and Annexure I - Risk Matrix, ALARP Concept, Threshold Criteria
13:30 – 14:30	Lunch
14:30 – 15:30	Scenario-Based Group Work: Quantitative Risk Assessment (QRA) - Case Exercises: Pipeline rupture, tank truck fire - Risk estimation, zone mapping, consequence modelling
15.30 – 15.45	Tea/ Coffee break
15.45 – 17.00	Risk Assessment in Action: Learning from Real-World Good Practices - A. IOCL Jaipur Terminal Fire (2009) – Focus on failures in hazard communication and delayed isolation - B. BP Texas City Refinery Explosion (2005) – Failure in risk perception, poor maintenance culture - C. Shell Nigeria Pipeline Network – Proactive use of GIS and predictive risk tools - D. Internal Best Practice Case (from IOCL, HPCL, or BPCL) – Averted incident through early QRA/red-tagging

DAY 2:

Time	Session
10:30 - 11:45	International Best Practices in Emergency Management - COMAH (UK), OSHA (US), API Standards - ICS (Incident Command System) Structure - Use of AI, sensors, and smart alerts in ERDMP - Tools for predictive analytics, real-time data analysis, automated decision-making, and optimised resource allocation. - Use of AI-powered Drones and Robotics
11.45 – 12:00	Tea/ Coffee Break
12:00 – 13:15	Learning from Near-Miss Reporting - Real-world PSU case examples - Root cause discussion using Bowtie/ Fault Tree methods - Organizational learning from failure signals - Behavioural (Human) Aspects
13:15 – 14:15	Lunch
14:15 – 15:30	Leading Through Crisis: Tactical Decision-Making in Emergencies (Part I) - Emergency Room Simulation - Role-play: Missing workers, media escalation, equipment failure
15.30 – 15.45	Tea/ Coffee break
15.45 – 17.00	Leading Through Crisis (Part II) - Team Presentations - Scoring based on ERDMP compliance, communication efficiency and decision effectiveness

DAY 3:

Time	Session
10:30 - 11:45	Post-Incident Recovery and Business Continuity Planning (BCP) - BCP alignment with ERDMP - Logistics & vendor readiness
11.45 – 12:00	Tea/ Coffee Break
12:00 – 13:15	ESG Integration and Emergency Preparedness - ESG expectations in oil & gas - KPIs and ERDMP synergy - Community and regulator engagement strategies - Public information management & Media management
13:15 – 14:15	Lunch
14:15 – 15:15	Enhancing Climate and Disaster Resilience in Oil & Gas Sector - Climate hazards and infrastructure exposure - Adaptation measures: flood protection, heat resilience - Group activity: Design a climate-resilient terminal
15.15 – 17.00	Group Exercise and PPT - Group (Refinery) - I (Making ERDMP and process of getting Certification) - Group (LPG Bottling Plant)- II (Making ERDMP and process of getting Certification) - Group (POL) - III (Making ERDMP and process of getting Certification) - Group (CGD) - IV (Making ERDMP and process of getting Certification) - Group (Cross country pipelines) - V (Making ERDMP and process of getting Certification)
17.00 – 17.15	Tea/ Coffee break
17.15 – 18.00	Closing Session - Summary of key learnings - Feedback collection - Certificate distribution and vote of thanks

