



A

Report On

Expert talk on

Hazards & Risk Management in Chemical Industries

Resource Person

**Prof. M. N. Vyas,
Ex. GM (operation & HSE), IPCL Vadodara**

Date: 21/02/2025

In association with



Organized by

**Shree Dhansukhlal Thakordas (Colourtex Group)
DEPARTMENT OF CHEMICAL ENGINEERING
SARVAJANIK COLLEGE OF ENGINEERING AND TECHNOLOGY,
SARVAJANIK UNIVERSITY**

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SARVAJANIK EDUCATION SOCIETY
Sarvajanik College of Engineering & Technology
(A Constitutional Institute of Sarvajanik University)
Shree Dhansukhlal Thakordas (Colourtex Group)
Department of Chemical Engineering

In Association with
Institution Innovation Council (IIC)
Indian Institute of Chemical Engineers (IICChE)



PROF. M. N. VYAS

ex. GM (operation & HSE),
IPCL Vadodara

EXPERT TALK ON

HAZARDS AND RISK MANAGEMENT IN CHEMICAL INDUSTRIES



21 FEB
2025



PROJECT LAB

DR. SRUJAL RANA
FACULTY COORDINATOR &
HEAD OF DEPARTMENT

PROF. RASHMITA PATEL
FACULTY COORDINATOR &
IICHE STUDENT CHAPTER
CORDINATOR

PROF. (DR.) HIREN PATEL
PRINCIPAL, SCET

Objectives of the session:

Industrial safety is a very important factor in today's workplaces because many dangerous operations are carried out in industries like manufacturing and chemical industries. Risk management is important because it helps organizations reduce potential losses and threats. It also helps organizations make better decisions, comply with regulations, and protect their reputation. Reflecting on the importance of its necessity, it is crucial to indicate that by preparing the upcoming chemical engineers in this sense, it is possible to avoid accidents that threaten the lives of workers in various organizations.

Resource Person:	Prof. M. N. Vyas, ex. GM (operation & HSE), IPCL Vadodara
Venue:	Project Lab, J-02
Date and Time:	21/02/2025,10:00 am -12:00 noon
Participants:	BE-II and BE-III Chemical Engineering Students
Faculty Coordinator	Dr. Srujal Rana and Prof. Rashmita Patel

Brief Introduction of expert:

Prof. M. N. Vyas have done Masters in Chemical Engineering, University of Bradford, England, and Post graduate Diploma in Powder Technology, University of Bradford, and Post graduate Diploma in Chemical Engineering, University of London, Kings College and Bachelor of Science, University of Calcutta. He has more 25 years of industrial experience mainly with IPCL, Vadodara. Prof. Vyas have done many assignments related to industrial safety in other countries such as USA, UK, Canada, Spain and Italy. Since superannuation, he is providing honorary services as External Examiner, Visiting Professor and Adjunct Professor at various universities in Gujarat. He has also written books on “safety and hazards management in chemical industries” And " Management of Chemical Projects, Design and Economics”

Summary of the Session:

Following topics were been covered during session with daily life examples:

- Introduction to Hazard and Risk
- Types of hazard associated with chemical industry
- Hazard and Risk Management Study
- Bhopal Gas Tragedy: Causes (What went wrong) and after incident consequences
- Fault Tree Analysis
- Event Tree Analysis
- Hazard Operability Study (Hazop study)

Glimpses of the talk:



Acknowledgment:

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We also thank to **Prof. (Dr.) Hiren Patel**, Principal, SCET; **Dr. Srujal Rana**, Head of Chemical Engineering Department, SCET for their guidance and motivation in organizing this event.

A sincere gratitude to IChE Student Chapter, SCET and IIC Cell for the association in organizing this lecture.

Report Compiled by:
Prof. Rashmita Patel, Event Coordinator