



**NITIE**  
NATIONAL INSTITUTE OF  
INDUSTRIAL ENGINEERING  
Mumbai - India



**NITIE**  
National Institute of  
Industrial Engineering

Program Code: 1 23 4 69

Program Code: 1 23 4 69

## HAZARDS IDENTIFICATION AND RISK ANALYSIS IN INDUSTRIES

(A Qualitative and Quantitate risk assessment approaches)



July 25-28, 2022



5:30 to 8:30 PM (IST)  
course duration 12 hours

*Certificate will be provided to all registered participants*

**Course Fee: ₹ 7080/-**  
(Including GST)

REGISTRATION LINK >

<https://forms.office.com/r/wmPwMbcK5d>



### Who should attend?

Senior and middle executives working in the area of safety; Academicians having knowledge and industrial experience in safety, Safety officers and consultants working in the area safety.

### Why you should attend?

The executives working in health and safety domain must be aware and identify the known and unknown hazard and risk. Further, the growing societal demand for better quality of work life needs to be satisfied by the employer. Finally, increase in competition from global players in terms of quality, productivity, and safety keeps organizations awakening. Under such changing scenarios, industries and safety executives need to have understanding about qualitative and quantitative risk assessment approaches and later develop and device ways and means to improve their workplace in terms of safety, health and environment.

### About the Programme

Modern industries and plants are growing rapidly and are complex in nature. The lack of appropriate safety measures leading to incidents/accidents in these complex plants have been a source of increasing concern. The increasingly critical examination of the adequacy of the existing appropriate hazard and Risk assessment approaches and having appropriate process safety is need of an hour. The individuals working in industry and those who aspire to work in industry must have knowledge about Qualitative and quantitative risk assessment approaches. The program provides theoretical and practical insights about Process Safety Management, legislative frameworks, specific Hazards Identification and Risk Analysis methods, the root cause of accidents and investigation, Behaviour based safety with case discussion and case studies, real-life experiences, table top exercise to have in-depth understanding about Hazard and risk assessment.

## Objectives

To provide insight regarding how qualitative and quantitative risk assessment in industries are performed. The program will highlight the nature, responsibilities, methods and documentation required in the performance of such studies. The program will ensure that the hazard and risk assessment studies are conducted using appropriate tools and techniques in a timely manner along with effective implementation as may be prescribed by a company's Process Safety Management (PSM) Policy.

## Course coverage

- Introduction to Process Safety Management and Overview of Qualitative and Quantitative Risk Analysis
- Principles of Health and Safety and other legislative frameworks
- Disaster Management Plan – Prevention and Preparedness and Case exercise
- Hazard and Risk analysis, Techniques Adopted in Risk Analysis.
- HAZOP Study, Inputs & Outputs of Risk Analysis, Role of HAZOP Study, Methodology & Technique, Mini HAZOP exercise; HAZOP Case study and Tabletop exercise
- Failure Mode Effect Analysis (FMEA) and Case exercise
- Layer of Protection Analysis (LOPA) and Case exercise
- Management of Change (MOC)
- Fire and Safety Management
- Safety Audits and Inspections
- Loss prevention and Accident investigation.
- Behavioural based safety (BBS) and Planning & Implementation of BBS

## Course Faculty



**Dr. Vidyadhar Gedam**  
Assistant Professor - NITIE Mumbai

Prof. Vidyadhar V. Gedam has done his PhD in “Sustainable Engineering” under sponsored project by SINTEF-Norway at CSIR-NEERI, Nagpur and Advance Diploma in Industrial Safety from MSBTE, Mumbai. Currently, he is working as Assistant professor (Sustainability Management Area) at National Institute of Industrial Engineering (NITIE), Mumbai. He has more than ten years of work experience in the domain of Environment, Health and Safety. He has a significant contribution in research and has several research papers and book chapters. He was principal project investigator of the sponsored project by Gyngrowth industry, Nagpur. He is actively working in the area of Health and Safety. He has done several capacity buildings programs for IOCL, BPCL in the area of Hazard and Risk Management.

Contact details:

vgedam@nitie.ac.in

M-7875028207

### For Further Details Contact

program@nitie.ac.in

NITIE, Vihar Lake Road, Mumbai –400087

<http://www.nitie.ac.in>