

## ➔ Our Open House Training Programs 2023-24

| Programme                           | Location  | Duration | Date   | Fees/participant (including GST) |
|-------------------------------------|-----------|----------|--|----------------------------------|
| Risk Management                     | Mumbai    | 1-day    | 19 <sup>th</sup> May                         | 14,200                           |
|                                     | Vadodara  | 1-day    | 29 <sup>th</sup> September                   | 14,200                           |
|                                     | Mumbai    | 1-day    | 22 <sup>nd</sup> December                    | 14,200                           |
| HAZOP                               | Mumbai    | 2-days   | 13 <sup>th</sup> & 14 <sup>th</sup> June     | 26,000                           |
|                                     | Hyderabad | 2-days   | 10 <sup>th</sup> & 11 <sup>th</sup> Aug      | 26,000                           |
|                                     | Mumbai    | 2-days   | 15 <sup>th</sup> & 16 <sup>th</sup> Feb'2024 | 26,000                           |
| Hazardous Area Classification (HAC) | Vadodara  | 1-day    | 24 <sup>th</sup> March                       | 14,200                           |
|                                     | Hyderabad | 1-day    | 7 <sup>th</sup> July                         | 14,200                           |
|                                     | Mumbai    | 1-day    | 19 <sup>th</sup> June                        | 14,200                           |
| SIL & LOPA                          | Mumbai    | 1-day    | 22 <sup>nd</sup> Sept                        | 14,200                           |
| Dust Explosion Hazards              | Mumbai    | 1-day    | 14 <sup>th</sup> July                        | 14,200                           |
|                                     | Hyderabad | 1-day    | 9 <sup>th</sup> June                         | 14,200                           |
| Electrical Safety Audit             | Mumbai    | 2-days   | 5 <sup>th</sup> & 6 <sup>th</sup> Oct        | 26,000                           |
|                                     | Mumbai    | 2-days   | 12 <sup>th</sup> & 13 <sup>th</sup> Jan'2024 | 26,000                           |
| Chemical Reaction Hazards           | Mumbai    | 1-day    | 18 <sup>th</sup> Aug                         | 14,200                           |
|                                     | Vadodara  | 1-day    | 22 <sup>nd</sup> July                        | 14,200                           |
|                                     | Goa       | 1-day    | 22 <sup>nd</sup> Sept                        | 14,200                           |
|                                     | Mumbai    | 1-day    | 12 <sup>th</sup> Jan'2024                    | 14,200                           |
| Vent Design                         | Mumbai    | 3-days   | 21 <sup>st</sup> to 23 <sup>rd</sup> June    | 59,000                           |
| Process Safety Management           | Hyderabad | 2-days   | 23 <sup>rd</sup> & 24 <sup>th</sup> Feb'2024 | 26,000                           |

## ➤ Course: RISK MANAGEMENT

Duration: 1 day

| Venue    | Date                       | Fee/candidate<br>(incl GST) |
|----------|----------------------------|-----------------------------|
| Mumbai   | 19 <sup>th</sup> May       | Rs 14,200                   |
| Vadodara | 29 <sup>th</sup> September | Rs 14,200                   |
| Mumbai   | 22 <sup>nd</sup> December  | Rs 14,200                   |



### Event Summary

Risk management is the identification and evaluation of threats, hazards or other exposures that an organisation is exposed to. To assess threats in industry several well-established techniques are used. The techniques are both qualitative as well as quantitative. Qualitative techniques include Hazard Identification (HAZID) and Hazard and Operability (HAZOP) studies, both of which rely on expertise and judgement of the person making the assessment. Quantitative assessments include Quantitative Risk Analysis (QRA), Safety Integrity Levels (SIL) and LOPA (Layers of Protection Analysis). A risk assessment

typically provides the basis on which management can take decisions on risk reduction and mitigation.

### Why should you participate?

This course will introduce you to the theory and basic concepts of 'Risk Management' and how one can use the various techniques to improve safety in the workplace. After attending this course participant will become empowered to participate effectively in safety studies. The teaching will be a combination of theory, films, presentations, case studies and problem solving exercises.

## ➤ Course: HAZOP

Duration: 1 day

| Venue     | Date   | Fee/candidate<br>(incl GST) |
|-----------|--|-----------------------------|
| Mumbai    | 15 <sup>th</sup> & 16 <sup>th</sup> June     | Rs 26,000                   |
| Hyderabad | 10 <sup>th</sup> & 11 <sup>th</sup> August   | Rs 26,000                   |
| Mumbai    | 15 <sup>th</sup> & 16 <sup>th</sup> Feb'2024 | Rs 26,000                   |



### Event Summary

A HAZOP is the most effective way to identify Hazards and recommend the steps to ensure that all the identified hazards have been addressed. In the HAZOP the consequence of each credible deviation in a process is evaluated and safeguards are assessed.

### Why should you participate?

This intensive one day program will coach the attendees on how to prepare for a HAZOP, how to be an effective participant and also what is needed to lead HAZOP studies.

## ➔ Course: HAZARDOUS AREA CLASSIFICATION (HAC)

Duration: 1 day

| Venue     | Date                      | Fee/candidate<br>(incl GST) |
|-----------|---------------------------|-----------------------------|
| Vadodara  | 30 <sup>th</sup> June     | Rs 14,200                   |
| Hyderabad | 7 <sup>th</sup> July      | Rs 14,200                   |
| Mumbai    | 19 <sup>th</sup> Jan'2024 | Rs 14,200                   |



### Event Summary

An HAC study has to be carried out as a part of Risk Assessment. It enables organisations to identify places where special precautions are required to prevent electrical devices from causing fire or ignition. Many gases, vapours and dusts can form flammable (explosive) atmospheres when mixed in appropriate concentrations with air. A HAC study will enable management to take appropriate precautions and warn employees and others of the dangers of fire and ignition.

### Why should you participate?

This course will give the participants comprehensive knowledge of 'Hazardous Area Classification' and after attending the course participants will be empowered to conduct HAC studies independently. The teaching will be a combination of theory, presentations, case studies and problem solving exercises.

## ➔ Course: SIL & LOPA

Duration: 1 day

| Venue  | Date                  | Fee/candidate<br>(incl GST) |
|--------|-----------------------|-----------------------------|
| Mumbai | 22 <sup>nd</sup> Sept | Rs 14,200                   |



### Event Summary

A Safety Integrity Level (SIL) measures the relative level of risk-reduction provided by a safety function. SIL is a measure of performance required for a Safety Instrumented System (SIS).

Layers of Protection Analysis (LOPA) is a PHA tool that determines the number of safeguards needed to safeguard or mitigate a chemical process event. It also enables the determination of the integrity level that should be chosen for a Safety Instrumented System.

### Why should you participate?

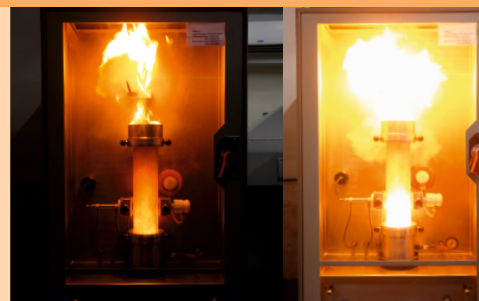
**The SIL assessment course** will coach attendees on how a facility/system should be assessed and graded according to different classifications. It will also teach the attendees the process for determining if additional measures are required (in light of the criticality of a system) or it conforms to the stipulated level of safety.

**In the LOPA assessment** attendees will be taught how to assess the adequacy of the various safety protection layers or safeguards that are in place and the adequacy of Safety Instrumented protective system designed into process system.

## ➔ Course: DUST EXPLOSION HAZARDS (DEH)

Duration: 1 day

| Venue     | Date                  | Fee/candidate<br>(incl GST) |
|-----------|-----------------------|-----------------------------|
| Mumbai    | 14 <sup>th</sup> July | Rs 14,200                   |
| Hyderabad | 9 <sup>th</sup> June  | Rs 14,200                   |



### Event Summary

This course will introduce candidates to the hazards of dust explosion and the dangers that it poses in the day to day of operations in any chemical plant. We will elaborate on how powders should be handled safely with specific emphasis on drying & milling operations. The participant will also learn about the various explosion protection & prevention techniques.

### Why should you participate?

At the end of this one-day competency development program, candidates will understand the various hazards posed by dust and static electricity, and the techniques to prevent them. It will also teach the candidates what tests are essential to develop a basis of safety to prevent the hazards of dust explosion.

## ➔ Course: ELECTRICAL SAFETY AUDIT

Duration: 2 days

| Venue  | Date   | Fee/candidate<br>(incl GST) |
|--------|--|-----------------------------|
| Mumbai | 5 <sup>th</sup> & 6 <sup>th</sup> October    | Rs 26,000                   |
| Mumbai | 12 <sup>th</sup> & 13 <sup>th</sup> Jan'2024 | Rs 26,000                   |



### Event Summary

More than 45 per cent of reported fire accidents are traced to electrical problems. Electrical safety is an important issue in industrial installations and requires serious attention. Electrical safety is a well-legislated subject and the various Acts and Regulations enacted stress on the responsibility of both employers and employees in ensuring safe working conditions. An Electrical Safety Audit is a key to ensure electrical systems are safe as it identifies weaknesses in electricity use and provides a plan for corrective action. A well-conducted audit will assist management in reducing electrical

hazards and formulating Emergency Preparedness Plan.

### Why should you participate?

The course will enable the participants to know about the Why, When & How of Electrical Safety Audit. This course is expected to raise the level of competence and electrical safety awareness within the company and provide specific guidance to those who must implement and follow procedures. The course will have an emphasis on the theoretical as well as the practical and statutory issues.

## ➤ Course: CHEMICAL REACTION HAZARDS

Duration: 1 day

| Venue    | Date                      | Fee/candidate<br>(incl GST) |
|----------|---------------------------|-----------------------------|
| Mumbai   | 18 <sup>th</sup> August   | Rs 14,200                   |
| Vadodara | 22 <sup>nd</sup> July     | Rs 14,200                   |
| Goa      | 22 <sup>th</sup> Sept     | Rs 14,200                   |
| Mumbai   | 12 <sup>th</sup> Jan'2024 | Rs 14,200                   |



### Event Summary

Chemical reaction hazards lead to major and often fatal incidents in the chemical industry. These incidents lead to accidents, injuries, deaths, property damage and business interruptions to the plant. GVS Cibatech has developed this special one-day course on the root cause of these accidents and the precautions that need to be taken to prevent such events.

### Why should you participate?

The course will teach attendees how to assess chemical reactivity through:

- Use of Chemical Engineering principles to study the potential runaway reactions for storage and reactor risk assessments
- Small-scale studies
- Performing risk analysis of chemical processes
- Development of inherently safer processes

## ➤ Course: FUNDAMENTALS OF RELIEF SYSTEM DESIGNS (VENT DESIGN)

Duration: 3 days

| Venue  | Date                                      | Fee/candidate<br>(incl GST) |
|--------|---|-----------------------------|
| Mumbai | 21 <sup>st</sup> to 23 <sup>rd</sup> June | Rs 59,000                   |



### Event Summary

Sizing of Relief Systems is extremely demanding. Emergency Relief Vent Sizing is done using methods generated from the DiERS (Design Institute of Emergency Relief Systems) project. In addition, there are a number of industry codes, standards and recommended practices that provide guidance in the sizing, selection and installation of relief devices and systems.

This three-day competency development program chaired by Mr. Rahul Raman and Mr Vijay Bhujle provides attendees the opportunity for a face-to-face training on Relief System Design Fundamentals. Mr Raman is a Senior AIChE Member who has actively participated and contributed in DiERS User Group meetings.

### Why should you participate?

Kaypear Engineering and GVS Cibatech bring this competency development program to you jointly. Kaypear's technical stewardship, expertise in Relief System Design, and GVS Cibatech's expertise in Process Testing will ensure a successful training program for staff engineers who are performing relief system design.

The attendees will understand the recognized best practices of Relief System Design Training from API 520 Part I, API 520 Part II, API 521, and DiERS methodology. The outcome of the training will be for attendees to perform single phase, non-flashing, and non-reactive relief system design.

## ➔ Course: PROCESS SAFETY MANAGEMENT

Duration: 2 days

| Venue     | Date   | Fee/candidate<br>(incl GST) |
|-----------|--|-----------------------------|
| Hyderabad | 23 <sup>rd</sup> & 24 <sup>th</sup> Feb'2024 | Rs 26,000                   |



### Event Summary

This competency development workshop introduces the elements of the Process Safety Management and discusses the advance skills, techniques, and tools of auditing, and the characteristics of a good PSM system. This 2-day program will cover all the elements of the PSM-OSHA standard and will include:

- Employee Participation
- Process Safety Information
- Process Hazard Analysis
- Operating Procedures
- Training
- Contractors
- Pre Start Up Safety Review (PSSR)
- Mechanical Integrity
- Hot Work Permits
- Management of Change
- Incident Investigation
- Emergency Planning and Response
- Compliance Audit
- Trade Secrets

### Why should you participate?

Whether your company is large or small, whether you are experienced with auditing or just developing a system, consistent use of the techniques presented can significantly improve your audit and your process safety management.

Participants will be able to apply various evaluation methods for hazard prevention and control of process with emphasis on various process hazard analysis methodologies. Additionally, this project attempts to increase involvement in and participation with facility safety efforts.







# Process Safety Training Programmes

## 2023-24

### Payments:

Payments may be made online to our Bank Account as detailed below:

**Bank Name:** ICICI Bank  
**Branch:** Bhandup (W)  
**A/C No:** 098405001381  
**IFSC Code:** ICIC0000984

Alternatively Cheques may be made out in the name of  
**"GVS Cibatech Pvt Ltd."**

### REGISTRATION FORM

Please book me for:

Enclosed herewith Cheque / DD in favour of '**GVS Cibatech Pvt Ltd.**'

for Rs. \_\_\_\_\_ Dated \_\_\_\_\_ Drawn on \_\_\_\_\_

Name of the Participant(s) Dr./Mr./ Ms.: \_\_\_\_\_

Designation/ Job Title: \_\_\_\_\_

Company Name: \_\_\_\_\_

Address : \_\_\_\_\_

Pin Code: \_\_\_\_\_ Country : \_\_\_\_\_

Mobile : \_\_\_\_\_ Email : \_\_\_\_\_

Signature: \_\_\_\_\_ Date : \_\_\_\_\_

For More Details Contact:

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**GVS Cibatech Pvt. Ltd.**

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