

## IN-COMPANY TRAINING & OPEN SEMINARS

Chilworth Technology Pvt. Ltd. brings together leading national and international expert consultants in the field of process safety with ISO/IEC Accredited laboratory to provide a single point of contact for industry's process safety needs. In addition to consulting and testing, Chilworth Process Safety Academy offers Process Safety open seminars & In-company training courses.

Courses we bring to you, tailor to your needs and deliver at your chosen location. Whatever your industry type - Chemical, Pharmaceutical, Food and Drink, Energy through to Oil & Gas – we can customise a specific course for your needs. These courses can be tailored to different technical levels reflecting the audience mix (i.e. Managers, Engineers or Operators) and run to suit the shift patterns and staff availability of your plant. We also have the option of extended courses which involve visits to your processing facilities to enhance the training experience.

Beneficiaries of these courses can range from Senior Management to Regulatory Compliance Staff, HSE Professionals, Operating Personnel and HR personnel. Below is the list of our safety training courses.

### OPEN SEMINAR – 2012

Date & Day	Location	Topic	Description	Duration
February	Mumbai	Risk Management	The workshop is aimed to sensitize and increase awareness of tools that are being used internationally for ensuring Safety, operability and availability of Oil and Gas companies. This would primarily cover topics like HAZID, HAZOP, QRA, SIL, EERA, ESSA, Dispersion, RAM, ALARP, Safety Case	One day session
March 5 <sup>th</sup> 2012	Hyderabad	Dust Explosion, Hazardous Area Classification, Chemical Reaction Hazards	This course will provide how flammable dust atmosphere arise, how to identify potential ignition sources and the test data which need to undertake a risk assessment. This will also address the suitable prevention & protection measures against dust explosion. This course will enable participants to identify and assess Chemical Reactivity Hazard and explain the methodology necessary to select suitable safety measures for protecting the plant against runaway reaction	One day session
March 8 <sup>th</sup> & 9 <sup>th</sup> 2012	Mumbai	Dust Explosion, Hazardous Area Classification, Chemical Reaction Hazards, Gas Expulsion and Myth of ignition sources and Learning	The course will place a special emphasis on electrostatic ignition sources although other common types such as mechanical friction, mechanical sparks, hot surfaces, powder decomposition and electrical equipment will also be covered. The course will use a number of case studies and practical demonstrations in addition to a group workshop on ignition source identification and control. The course will enable the identification and persistence of the flammable atmosphere as well as to help classifying the site into different areas/zones bases on the level of risks identified. This course also presents the best practices and procedures for carrying out HAC	Two day session
May	Bangalore	Human factor & Ergonomics	This course will provide an insight to Human Factors that refers to environmental, organisational, job factors and the human and individual characteristics which influence behaviours at work in a way which affect safety and performance. Goal of Human Factors engineering is to maximize the ability of an individual or team to operate and maintain a system at required levels by eliminating design-	One day session

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induced difficulty and error. In the design of large systems, we focus on organizational culture, personnel, training, and operating procedures

June	Kuala Lumpur	Risk Management and Process Safety Management	The workshop is aimed to sensitize and increase awareness of tools that are being used internationally for ensuring Safety, operability and availability of Oil and Gas companies. This would primarily cover topics like HAZID, HAZOP, QRA, SIL, EERA, ESSA, Dispersion, RAM, ALARP, Safety Case	One day session
July	Delhi	Behaviour Based Study	Any process that brings all levels within the organization together to work on a common goal that everyone holds in high value will strengthen the organizational culture. Worker safety and health is a unique area that can do this. This session will cover how to align management and supervisors through establishing a shared vision of safety and health goals and objectives vs. production and Implement a process that holds managers and supervisors accountable for visibly being involved, setting the proper example, and leading a positive change for safety and health	One days session
September	Goa	Process Hazard Analysis Techniques	This course will present the ways to identify the hazards, prevent them & mitigate their consequences using different techniques such like FTA, HAZOP, What-if & others.	One days session
November	Delhi	Process Safety Management	With OSHA-PSM standard as a base, this workshop addresses the requirements for the management of hazards associated with the processes using highly hazardous chemicals to help enhance the process safety in the workplace.	

**NOTE:-**

1. For more than one (1) participant from the company or registration one month before the event, a discount will be offered.
2. Vital information containing the venue, timing, fees, etc. will be sent nearer to the event.
3. For more information on the topics, please email us at [msharma@chilworthglobal.com](mailto:msharma@chilworthglobal.com)/[karora@chilworthglobal.com](mailto:karora@chilworthglobal.com)

## IN-COMPANY TRAINING

Topic	Description	Duration
Process Safety Management	With OSHA-PSM standard as a base, this workshop addresses the requirements for the management of hazards associated with the processes using highly hazardous chemicals to help enhance the process safety in the workplace	Two days session
Managing Risk Through Effective SMS Implementation	This course will present a comprehensive system (SMS) to manage the safety, health, environmental risks aspects of industry. This course also provides the systematic way to identify hazards and control risks while maintaining assurance that these risk controls are effective by means of SMS implementation	Three days session
Hazop	Training will develop the skills & knowledge required for participating & leading a HAZOP. Practical examples & carrying out a HAZOP will form a fundamental part of this course.	Two days session

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Dust Explosion	This course will provide how flammable dust atmosphere arise, how to identify potential ignition sources and the test data which need to undertake a risk assessment. This will also address the suitable prevention & protection measures against dust explosion	One day session
Hazardous Area Classification	The course will enable the identification and persistence of the flammable atmosphere as well as to help classifying the site into different areas/zones bases on the level of risks identified. This course also presents the best practices and procedures for carrying out HAC	One day session
Electrostatic Hazards Assessment	The purpose of this course is to provide basic knowledge of Electrostatics with the clear understanding of generation, dissipation and accumulation of static charges. This will guide the participants to recognize and control the electrostatic hazards which can cause fire and explosions	One day session
Hazardous Material Handling	Training Program is designed to help participants to understand the characteristics of hazardous materials and the ways to handle it safely. This training consists of instruction in the storage, handling, transportation and interaction of hazardous substances	One day session
Process Hazard Analysis Techniques	This course will present the ways to identify the hazards, prevent them & mitigate their consequences using different techniques such like FTA, HAZOP, What-if & others.	Two days session
Chemical Reaction Hazards	This course will enable participants to identify and assess Chemical Reactivity Hazard and explain the methodology necessary to select suitable safety measures for protecting the plant against runaway reaction	Two days session
Quantitative Risk Assessment	This course will provide a perceptive of the QRA standards, MCA scenarios & consequence analysis	One day session
Non-Electrical Equipment Ignition Risk Assessment	This course will cover how to assess the ignition risk from existing non-electrical (mechanical) equipment operating in hazardous areas.	One day session
Risk Management – Onshore & Offshore	The workshop is aimed to sensitize and increase awareness of tools that are being used internationally for ensuring Safety, operability and availability of Oil and Gas companies. This would primarily cover topics like HAZID, HAZOP, QRA, SIL, EERA, ESSA, Dispersion, RAM, ALARP, Safety Case	One day session
Behaviour Based Safety	Training on BBS will cover techniques of BBS implementation, models and relevant cases to the problems of safety in the workplace	One day session
Human Factor & Ergonomics	This course will provide an insight to Human Factors that refers to environmental, organisational, job factors and the human and individual characteristics which influence behaviours at work in a way which affect safety and performance.	One day session
Flash Fire Explosion Hazards	The course will enable the identification and understanding of the hazards associated with the use of flammable liquids, gases and solids in plant, in order to be able to specify appropriate measures to reduce the risk of a gas or vapour or dust fire and explosion occurring	One day session
Safety Culture Building	This session will cover how to align management and supervisors through establishing a shared vision of safety and health goals and objectives vs. production and Implement a process that holds managers and supervisors accountable for visibly being involved, setting the proper example, and leading a positive change for safety and health.	One day session