

VENUE

A location map will be sent to you with course confirmation once we receive your completed application form.

CHILWORTH TECHNOLOGY LTD

Chilworth brings together leading experts in the field of process safety with state-of-the-art GLP compliant safety laboratories to provide a single point of contact for all your process safety needs. Our GLP compliant laboratories cover four areas of process safety, fire and explosion hazards, chemical reaction hazards, electrostatic properties and regulatory testing.

Supporting our laboratories and providing independent and impartial advice is our consultancy team. A group of dedicated engineers and scientists who specialise in the field of industrial explosion hazards, chemical process evaluation, vent sizing (DIERS), HAZOP, electrostatic hazards and production problems, incident investigation, SIL studies, expert witness and process safety training.

WORKSHOP TUTOR

Nigel Allen BSc, AMIChemE, joined Chilworth Technology in March 2004 as a Senior Process Safety Specialist. and has 20 years experience in the chemical industry.

Prior to working at Chilworth, Nigel developed in-company standards on hazardous area classification, permit to work, critical trip assessment and the handling of flammable liquids and combustible powders in particular situations. In addition, he contributed to the development of standards and procedures on tolerable risk, plant inerting and the assessment of combustible dust risks. He also developed and used hazard assessment procedures for new and existing chemical processes in a fast-moving business environment.

While at Chilworth, Nigel has undertaken DSEAR explosion risk assessments and hazardous area classifications, mechanical equipment ignition risk assessments, HAZOPs and quantified fire and explosion risk and frequency assessments (including occupied building risk assessments). He has also carried out general health and safety work, including confined space designation and health and safety support to a new plant start up (health and safety manual preparation and training; and pre-commissioning safety audits). He has also carried out DSEAR-related training on risk assessment, hazardous area classification, equipment ignition risk assessment and specification of equipment for hazardous areas

Call +44 (0)2380 760722
to enquire about availability

REGISTRATION

I wish to reserve a place on both courses
Day 1 and Day 2 (€530 + VAT)

I wish to only attend the Using the HAZOP Approach
course Day 1 (€295 + VAT)

I wish to only attend the HAZOP Leader Training course
Day 2 (€295 + VAT)

I cannot attend either course but would like a FREE
consultation with a Process Safety Specialist

Dr/Mr/Mrs/Ms/Miss:

Name:

Job Title:

Company Name:

Address:

Postcode:

Country:

Telephone:

Fax:

Email:

I am a Chilworth website subscriber and I wish to claim my 5%
discount (please tick)

Signature:

Date:

Cancellations: All reservations in writing are subject to cancellation conditions. Written cancellations received up to 5 working days before the course date will be subject to an admin charge of €50. No refunds will be made for cancellations received after this date, or for non-attendance, but course notes will be sent. Substitutions may be made at any time. Chilworth Technology reserves the right to modify or cancel the course up to 5 working days prior to the start date.

PROCESS HAZARD ANALYSIS: USING HAZOP APPROACH HAZOP LEADER TRAINING



two one-day courses, from 9am to 5pm

Wed 20th and Thurs 21st May 2009

De Vere Hotel
Warrington
WA4 4BB

Chilworth
Technology
the experts in process safety



DAY 1- PROCESS HAZARD ANALYSIS: Using the HAZOP Approach

An introduction to PHA or hazard identification and in particular the use of HAZOP. This seminar is suitable for anyone who is likely to be involved in PHA studies and needs to understand how the techniques, particularly HAZOP, should be used effectively.

The seminar will cover:

- The background to HAZOP and other PHA techniques, including their purpose and when and where different techniques should be used.
- The HAZOP technique in detail, including the use of deviations and guidewords.
- How the technique can be adapted for specific situations, such as batch processing and the assessment of computer control systems.
- The use of alternative or complementary techniques such as what-if/checklist studies.

The seminar will conclude with a HAZOP exercise on a bulk storage system, which will allow delegates to practice using the technique.

Upon completion of the course the delegates should be able to participate fully in HAZOP studies, whatever the system or process being studied. They should also understand the background and aims of the HAZOP techniques, as well as knowing where alternative techniques could be applied

DAY 1 COURSE PROGRAMME

- 09.00 - Introduction to PHA and HAZOP
- HAZOP Methodology
 - HAZOP and batch processing
 - HAZOP of computer systems (CHAZOPs)
 - Other HAZOP applications
 - Use of other PHA methods e.g. what-if/checklist
 - HAZOP workshop on bulk storage facility
- 17.00 - Close



DAY 2 - PROCESS HAZARD ANALYSIS: HAZOP Leader Training

An introduction to the leadership of HAZOPs, this seminar also covers HAZOP recording and site procedures, and is therefore suitable for anyone who is likely to lead and/or record a HAZOP study, and needs to more intimately understand how the technique can be applied effectively, or adapted to particular situations.

The seminar will cover:

- A résumé of Day 1, (the background to HAZOP and other PHA techniques, the HAZOP methodology and the application of HAZOP to specific situations.)
- How a study should be set up and then prepared for, including selection of the team and document review. This will cover both continuous and batch processes, as well as other situations such as HAZOPing of computer systems and vent/drain systems.
- How a study should be led, including the likely hurdles and pitfalls that may be encountered.
- The role of the HAZOP secretary or scribe,
- How a HAZOP should be managed, including the management of actions and recommendations.
- A description of and when to use alternative techniques such as what-if/checklist will also be made.
- How site procedures for PHA can help to standardise how, when and where PHAs are carried out.

The seminar will conclude with a HAZOP exercise on a batch manufacturing plant, which will allow delegates to practice preparing for, leading and recording a HAZOP.

Upon completion of the course the delegates should be able to lead HAZOP studies, whatever the system or process being studied. This will include preparation for a study, minute recording and HAZOP management. They should also be familiar with the other PHA techniques that are available, such as what-if/checklist.



DAY 2 COURSE PROGRAMME

- 09.00 - Introduction to PHA and HAZOP, including HAZOP methodology and its application to different situations
- Setting up a HAZOP study
 - Preparation for a HAZOP in different situations e.g. continuous, batch etc.
 - Leading a HAZOP
 - Recording a HAZOP
 - Managing HAZOPs, including actions/recommendations
 - Use and applicability of alternative PHA techniques in particular situations
 - HAZOP/PHA procedures
 - HAZOP workshop on batch pharmaceutical facility
- 17.00 - Close

WHO SHOULD ATTEND?

Day 1- Process Engineers, Project Engineers, Operations and Maintenance Managers and Personnel, Instrument Engineers, Research and Process Chemists and Process Safety Specialists who attend HAZOPs.

Day 2- Process Engineers, Project Engineers, Operations and Maintenance Managers and Personnel, Instrument Engineers, Research and Process Chemists and Process Safety Specialists, who may be expected to lead or secretary HAZOP studies. However, the course is also suitable for those who will manage HAZOPs, or otherwise need to have a greater understanding of the technique than would be gained from Day 1. It will be assumed that those who attend Day 2 will have already attended the Day 1 seminar or will have greater knowledge of the technique than those attending on Day 1.

HOW TO REGISTER

Telephone Tracy Bramall on +44 (0)23 8076 0722 to check availability.

AND

Fax or post the attached registration form together with your joining fee or an official company purchase order to Chilworth Technology Ltd on +44 (0)23 8076 7866 or Chilworth Technology Ltd, Beta House, Southampton Science Park, Southampton, Hants, SO16 7NS



Call +44 (0)2380 760722 to reserve your place

