

Dust Explosion Risk Reduction Online Training - Case Studies

Date From: 21 November 2017

Date To: 24 January 2018

Location: Worldwide

Description: This series of 4 case studies covers the reduction of risks from dust explosion making using of the DERReK methodology that is presented in the IChemE/BPE Dust Explosion online training modules. Each case study will demonstrate how the methodology works and how it can be applied to different potential dust explosion problems in different industries.

Event Type: IChemE Course

Venue: Online course

Organiser: IChemE

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Book Event

Overview



This series of 4 case studies covers the reduction of risks from dust explosion making using of the DERReK methodology that is presented in the IChemE/BPE Dust Explosion online training modules. Each case study will demonstrate how the methodology works and how it can be applied to different potential dust explosion problems in different industries.

Special note: Recordings are available if you can't make or miss a module.

What's included in the series?

- four live 60-minute modules
- text Q&A with the trainer
- four digital recordings for your personal use
- digital copies of all slides and supporting materials (PDF) for your personal use
- e-certificate of attendance, including hours allocation, for CPD purposes

The benefits of IChemE online learning

- save money: no travel, subsistence or accommodation costs
- stay productive: limit your time away from the office
- learn in manageable, concentrated, bite-size, one-hour chunks
- choose from two time slots near the start or towards the end of the day
- review or refresh the learning at your convenience with digital recordings of each module
- choose the modules you need - you don't need to buy them all

Course outline

Module 1: Pharmaceutical granulation, fluid bed drying and mill

- follows the classic wet granulation, fluid bed drying and milling process
- considers typical pharmaceutical mixtures.
- the importance of non-electrical sources of ignition and mitigation of consequences will be a major part of this case study

Module 2: Manufacture of ink using carbon black

- centred on a US Chemical Safety Board case study
- examines differences in approach that the DERReK methodology would highlight compared to the Chemical Safety Board recommendations
- highlights how an explosion suppression system works in practice

Module 3: Conveying dusty solids into a silo

- reviews the combination of conveying and gravity charging to a silo
- assesses changes made to large scale plant in the US that lead to a dust explosion
- examines a large scale experiment carried out in Germany and lessons learnt for hazardous area classification

Module 4: Large scale refuse separation and drying

- considers the DERReK methodology in relationship to the refuse separation and drying process
- examines whether it is possible to make logical conclusions about the hazardous area classification of parts of the process
- considers the possible consequences of any explosion

Online training schedule - each module approximately 60 minutes

Module 1 - 21 November 2017 - 09:00 GMT or 16.00 GMT
Module 2 - 28 November 2017 - 09:00 GMT or 16.00 GMT
Module 3 - 17 January 2018 - 09:00 GMT or 16.00 GMT
Module 4 - 24 January 2018 - 09:00 GMT or 16.00 GMT

Fees

Single module: £99 + VAT (available as recordings)

Full course (4 modules): £235 + VAT (available as recordings)

Software

The presentation will be delivered via GoToWebinar[®].

[Check system requirements >>](#)

You are advised to join the online training session at least **ten minutes** before the scheduled start time, to allow for your computer to connect.

Presenter

Eur Ing Keith Plumb CEng, CSci, FIChemE, BPE consultant



CPD Recording Information

Duration (for CPD recording purposes): 1 hour per module

If you are recording mandatory CPD you should refer to your own regulator's requirements as recognition of CPD hours may vary.

New CPD verification process from 2017. IChemE (in line with Engineering Council requirements) will be checking a random sample of Chartered Members' and Fellows' CPD records. More details [online](#).

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