

We are



Dear Vahid,

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Process Safety Dispatch

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Is there a Role for HAZOP, What-if, QRA, and FMEA in Dust Hazard Analysis (DHA)?



In last month's [issue](#) of Process Safety Dispatch, we reviewed some of the main techniques used for process safety risk assessment. In this issue, we challenge you with a situation where you may **NOT** wish to use those standard techniques! That situation? Dust Hazard Analysis – yes, the DHA as a **special case** for risk assessment.

In the world of process safety, conducting a thorough [Dust Hazards Analysis \(DHA\)](#) is paramount to ensuring the well-being of personnel and the integrity of facilities where combustible dust hazards lurk. The DHA is a requirement of [NFPA 652: Standard on the Fundamentals of Combustible Dust](#) and all companies should have by now undertaken their DHA and implemented the findings. Some of those companies will have used the standard [Process Hazards Analysis \(PHA\)](#) techniques as a DHA, often led by their in-house or third-party process safety specialist.

Traditional techniques like Hazard and Operability (HAZOP) study, What-If analysis, and Failure Mode and Effects Analysis (FMEA) have long been considered the cornerstones of process-risk assessment. But the question arises: Is it essential to use these resource-consuming techniques when performing a Dust Hazards Analysis? This article delves into the heart of this debate, shedding light on the advantages of avoiding the traditional PHA methods and uncovering instances where their application could miss important equipment-design deficiencies and would add complexity, unnecessary effort, and cost to the DHA process.

[Read More](#)

**Dust Clouds, Liquids & Gases, Static Electricity, Electrical Sparks, Mechanical Sparks
Explosions - Learn all about them!**



Fall Training Courses in Process Safety from Stonehouse. Virtual, broadcast live and direct to your PC in two 3-hour segments.

At Stonehouse, we've been helping hundreds of businesses with their process safety consulting and testing needs. We've built decades of cumulative knowledge, and experience - and (we believe) a unique insight into industry's process safety problems and solutions. Everything from dust explosions and static electricity through to hazardous area classification and process safety management. Now it's time to let you benefit directly from this, through a suite of live virtual training courses, complete with video footage, solution methodologies, and case studies.

We hope you can join us on-line starting in September for all our virtual and live, bite-sized training events!

The Courses:

LAST CHANCE! Exploding Dusts - Sept 5 & 6, 2023, 1:00pm-4:00pm EDT

You've heard it all. NFPA652, Dust Hazards Analysis, DHA, the brand new, game changing NFPA 660 even? You've even been and got a consultant in to do the necessary DHA. But do you want to know what to do next? Are you struggling to apply the DHA recommendations in a practical and cost-effective way? Or perhaps you are even wondering how you will arrange the mandatory revalidation and update of your DHA?

In our new live, bite-sized, virtual training course we are ready to guide you to all the answers. We'll give you all the basics, tell you about your dust explosion lab results, and what they mean and will lead you to the next steps in your dust fire/ explosion control journey from first-time DHA through to revalidation, including preventing explosions and all the plant protection methods available. For more information and to register, [click here](#).

Explosions - Oct 24 & 25, 2023, 1:00pm-4:00pm EDT

Gases, vapors, aerosols, fibers, dusts and more. We all know they can (and do) explode uncontrollably in industry threatening life, community, and business integrity. Yet, explosions and flash fires can be prevented and controlled.... if you have the knowledge,

experience and sometimes ingenuity. Our 'Explosions' course is your key to a safer plant – and peace of mind.

Our bitesize course takes you from understanding to hazards analysis, to explosion prevention and protection techniques and through to compliance with standards and guidelines. And we do this with copious doses of video and case study material built up from years of practical experiences. For more information and to register, [click here](#).

Static Electricity - Nov 14 & 15, 2023, 1:00pm-4:00pm EST

Static electricity is a devious subject. Fear not. We have it covered in this neat course designed for those who want to understand how static sparks arise in industry – and what to do to control this most elusive of ignition sources. We walk you through from the basics of the subject to help you understand where it all starts, we enthral you with new video clips of the subject, filmed in our own labs and we lay out practical options available to control static electricity on your plant. For more information and to register, [click here](#).

Hazardous Area Classification - Dec 5 & 6, 2023, 1:00pm-4:00pm EST

You've got flammable atmospheres at your facility. You've got electrical equipment at your facility. Better make sure the two never meet – or else make sure that if they do, the electrics cannot cause a fire or explosion. Knowing where your flammable atmospheres are (classifying hazardous areas) is a fundamental requirement of good process safety – important enough to have its own NFPA standards.

In our bitesize hazardous area classification course, we aim to have you understanding the requirements of the standards, explain good industrial practice and point you in the right direction to ensure your plant is safe from the fire and explosion hazards presented by electrical equipment. For more information and to register, [click here](#).

[For more info & Registration](#)



Expert Consulting

- Dust Explosion Prevention & Mitigation
- Control of Static Electricity
- Hazardous (Electrical) Area Classification
- Process Hazard Analysis
- Process Safety Management
- Fire and Explosion Hazard Assessment
- Incident Investigation
- Organizational Process Safety Competency Assessment

Specialist Laboratory Testing

- Combustible Dust Testing
- Electrostatic Testing
- Self-Heating / Thermal Instability

Testing

- Flammability Testing of Gases & Vapors



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Stonehouse Process Safety | 11D Princess Rd, Lawrenceville, NJ 08648

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