

What is a Dust Hazard Analysis?

A dust hazard analysis (DHA) is a systematic evaluation of the fire, deflagration, and explosion hazards of process equipment and building spaces handling combustible dusts.

DHAs flow as all hazard analyses



Gather process safety information



- Test data & SDSs
- Drawings (PFDs, P&IDs)
- Process descriptions
- Electrical classification
- Design basis of explosion protection

Review process safety information



- Develop study nodes
- Estimate team meeting time
- Schedule room with projector
- Assemble team
- Conduct pre-analysis meetings

NFPA lists specific requirements for DHAs

- ✓ Led by a qualified person
- ✓ Based on combustible dust characteristics of representative material
- ✓ Evaluation of hazards and scenarios for process equipment and building spaces
- ✓ Identification of safe operating ranges
- ✓ Discussion of existing safeguards
- ✓ Recommendation of additional safeguards, where needed
- ✓ Document results
- ✓ Develop an action plan

According to NFPA, DHAs are required where combustible or explosible materials are present in an enclosure.

Sigma-HSE offers a broad range of combustible dust tests and services to meet the needs of your business. For more information or help please reach out to connect with our experts today.