

Dust Hazard Analysis and Risk Assessment

Dust Hazard Analysis (DHA) and Dust Risk Assessment (DRA) are needed at industrial facilities for compliance with the requirements of NFPA 652, *Standard on the Fundamentals of Combustible Dust*.

Many facilities manufacture materials in the form of powders and some facilities generate powders through handling and processing solid materials. Such facilities may be subject to combustible dust hazards. A combustible dust is a finely-divided particulate solid that presents a flash-fire or explosion hazard when suspended in air, or another oxidizing medium. A wide variety of industries pose combustible dust hazards from various materials including chemicals, metals, wood, plastics, rubber, coal, flour, sugar, and paper.

This course teaches participants how to perform a Dust Hazard Analysis (DHA) and Dust Risk Assessment (DRA) to comply with the requirements of NFPA 652, *Standard on the Fundamentals of Combustible Dust*. A DHA is a systematic review to identify and evaluate the potential fire, flash fire, or explosion hazards associated with the presence of one or more combustible particulate solids in a process or facility. A DRA estimates the likelihood, vulnerability, and magnitude for incidents that could result from exposure to hazards. Course attendees participate in workshops to practice use of the methods taught.

Objective:

Be able to effectively and efficiently perform DHAs and DRAs for industrial facilities.

Target Audience:

Personnel responsible for conducting or participating in dust hazard analysis and risk assessment studies for industrial facilities.

You will learn:

- Basics of combustible dust safety
- NFPA standards requirements for DHA and DRA
- Which additional standards may apply
- Qualifications for study facilitators
- Pre-requisites for DHA
- Scope of DHA
- Key DHA elements
- Methods for DHA and DRA
- How to prepare for studies
- What information to assemble
- Who should participate in studies
- How to partition facilities for study
- What scenario information should be recorded
- What steps are involved in performing studies
- What should be documented in a study report
- What follow-on studies are needed

Course Topics:

- Overview
- NFPA standards
- Hazard identification for combustible dusts
- Requirements for DHA
- Dust hazard analysis
- Completion of DHA worksheets
- Prevention and mitigation of combustible dust hazards
- Dust risk assessment

Duration:

Two days, 1.4 CEUs or 14 PDHs awarded

For more information, contact:

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