

An Introduction to Combustible Dust Hazards & Mitigation Methods

Jason Reason, CIH, CSP, CHMM Director of Combustible Dust Services

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- ▶ 12.5 years as OSHA Compliance Officer
- Performed hundreds of DHAs & Design Reviews (DRs) in myriad of industries
- Assisted in developing requirements for NFPA 652, 484 and 2021 IBC/IFC
- 2019 ASSP Fire Practice Specialty Safety Professional of the Year
- Top 10 Speaker at 2019 NSC Conference

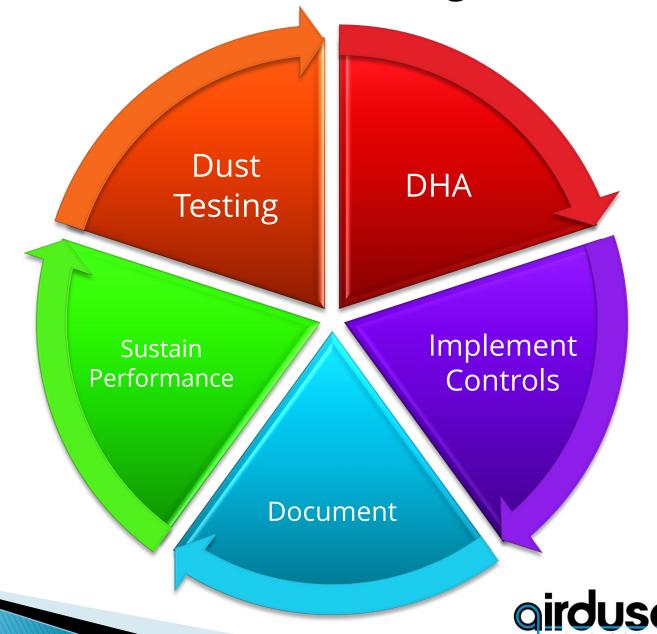


Jason Reason, CIH, CSP, CHMM

- NFPA Technical Committees
 - Chair of Committee for Wood & Cellulosic Materials (NFPA 664)
 - Principle Member of Committee for Handling & Conveying of Dusts, Vapors and Gases (NFPA 91, 654 & 655)
 - Principle Member of Committee for Fundamentals of Combustible Dusts (NFPA 652)
 - Principle Member of Committee for Combustible Metals and Metal Dusts (NFPA 484)
 - Member of Correlating Committee for Combustible Dusts (Over all NFPA combustible dust committees)



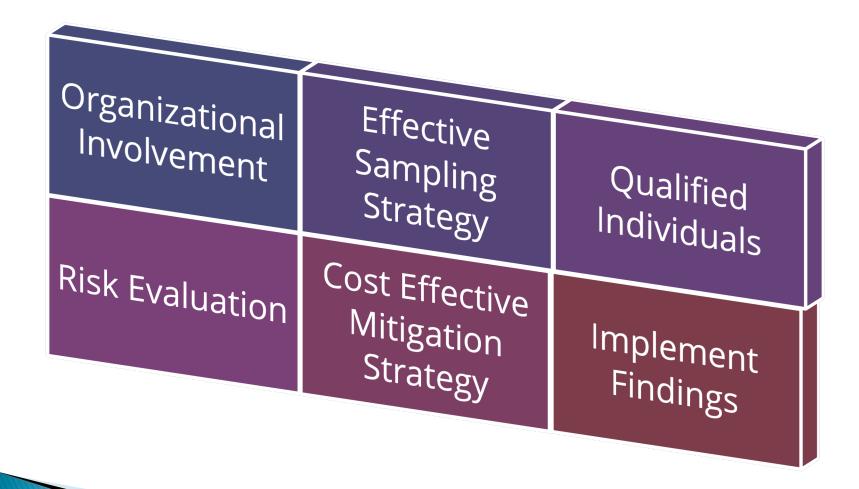
Combustible Dust Hazard Mitigation Process



HOW MANY STANDARDS IN THE US **ADDRESS COMBUSTIBLE DUST HAZARDS?**



Foundation of An Effective DHA





Anatomy of An Effective DHA

- Sources of Ignition
- Process Equipment
- Dust CollectionSystems
- EHS Programs/Policies
- Housekeeping
- Cleaning Methods
- Contractors
- Electrical Classification

- Explosion Protection & Prevention Systems
- Fire Protection Systems
- PreventativeMaintenance Programs
- Building Construction
- Emergency Egress
- Dust Testing
- Dust Reactivity
- Flame-Resistant Garments



Explosion Protection Methods

Passive

- DeflagrationVenting
- DeflagrationPressureContainment
- Deflagration
 Venting Through
 Flame-Arresting
 Device

Active

- Oxidant Concentration Reduction
- DeflagrationSuppressionSystems
- Dilution with a Noncombustible Dust







Questions???

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