

WorkSafe Combustible Dust Workshop
“Identifying, Evaluating, and Controlling the Risk”
Richmond, B.C -March 17, 2010
8:00 AM- 5:00 PM

Outcomes: Upon completion, the participants will be able to:

- Understand combustible dust related fire and explosion fundamentals
- Demonstrate how to identify hazards of combustible dust in the workplace
- Explain the importance in evaluating combustible dust hazards
- Describe administrative and best engineering controls in mitigating hazards
- Summarize applicable National Fire Protection Association (NFPA) standards

Outline:

- Introduction Combustible Dust Incidents
- Combustible dust ignition and explosion factors
- Ignition sources in process situations
- Evaluating combustible dust hazards
- Process conditions risk assessment
- Administrative controls prevention strategy
- Mitigating incidents utilizing engineering controls
- National Fire Protection Association (NFPA) 654 standard

Description: The combustible dust workshop topics will introduce attendees to the hazards of combustible dust related fires and explosions in the manufacturing, non-manufacturing, and utility sectors. Currently a situational awareness is lacking globally that combustible dust also poses a potential explosive atmosphere in the same light as flammable gases, vapors, and mists. Participants will acquire vital information necessary in identifying, evaluating, and controlling combustible dust hazards in the workplace. Instruction will also include developing prevention and mitigation strategies in minimizing the probability and reducing the severity of combustible dust incidents in the workplace.

Instructor: John Astad-Director, Combustible Dust Policy Institute, Santa Fe, Texas

Advance Reading Materials

1. Chemical Safety Board Combustible Dust Hazard Investigation
http://www.csb.gov/assets/document/Dust_Final_Report_Website_11-17-06.pdf
2. NFPA 654: Standard for the Prevention of Fire and *Dust* Explosions from the Manufacturing, Processing, and Handling of *Combustible* Particulate Solids
www.nfpa.org/AboutTheCodes/AboutTheCodes.asp?DocNum=654
3. OSHA Combustible Dust Safety Topics
<http://www.osha.gov/dsg/combustibledust/index.html>
4. Hazard Communication Guidance for Combustible Dusts.
<http://www.osha.gov/Publications/3371combustible-dust.html>
5. Health *Canada* overview of compliance issues related to dust
<http://www.hc-sc.gc.ca/ewh-semt/occup-travail/whmis-simdut/dust-poussiere-eng.php>
6. Combustible Dust Policy Institute
<http://www.combustibledust.com>
7. Global Combustible Dust Incidents
<http://maps.google.com/maps/ms?ie=UTF8&hl=en&msa=0&msid=101786521158328646175.0004493ba944989d9ca7c&ll=53.435719,-90.878906&spn=42.719826,111.621094&z=3>
8. Big bang theory: Westray mine disaster and other dust explosions. September 2009
[OHS Canada](#)
9. B.C/Canada Fire Codes