

**What is Title 8 Section 1530.1?  
How did it come about and  
what does it require.**

**CIHC Conference  
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San Francisco, California  
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## **Process started with silica PEL**

- **May 2005 Cal/OSHA public advisory meeting on silica PEL**
- **Much employer comment on possible revision to PEL for silica with so many different businesses affected**
- **Federal OSHA working on silica PEL >10 yrs – also looking at work based approach for construction**
- **Also, growing concern with dust exposure of the public from construction worksites (San Francisco ordinance)**
- **Alarcon bill – SB 46 June 2 2006 *This bill would prohibit the dry cutting and dry grinding of masonry materials, except where it is determined that the use of water in cutting or grinding masonry materials is not feasible***

# What's the concern?

- Operations with high exposure potential, even with relatively short exposures can be >>>PEL, especially when conducted indoors or in partially completed structures
- Serious, debilitating, sometimes fatal lung diseases:  
silicosis lung cancer increased TB susceptibility

Recognized more recently: Chronic bronchitis, airflow obstruction, possibly COPD, even in the absence of radiologic signs of silicosis:

American Thoracic Society statement on adverse effects of crystalline silica (1997) <http://www.thoracic.org/sections/publications/statements/pages/eoh/506.html>

Chronic obstructive pulmonary disease due to occupational exposure to silica dust: a review of epidemiological and pathological evidence. Hnizdo E. and Vallyathan V *Occup. Environ. Med.* 2003;60;237-243

<http://www.pubmedcentral.nih.gov/picrender.fcgi?artid=1740506&blobtype=pdf>

- Can also have acute or accelerated silicosis with very high exposures

## **Informal public advisory process to develop regulatory alternative to proposed legislation**

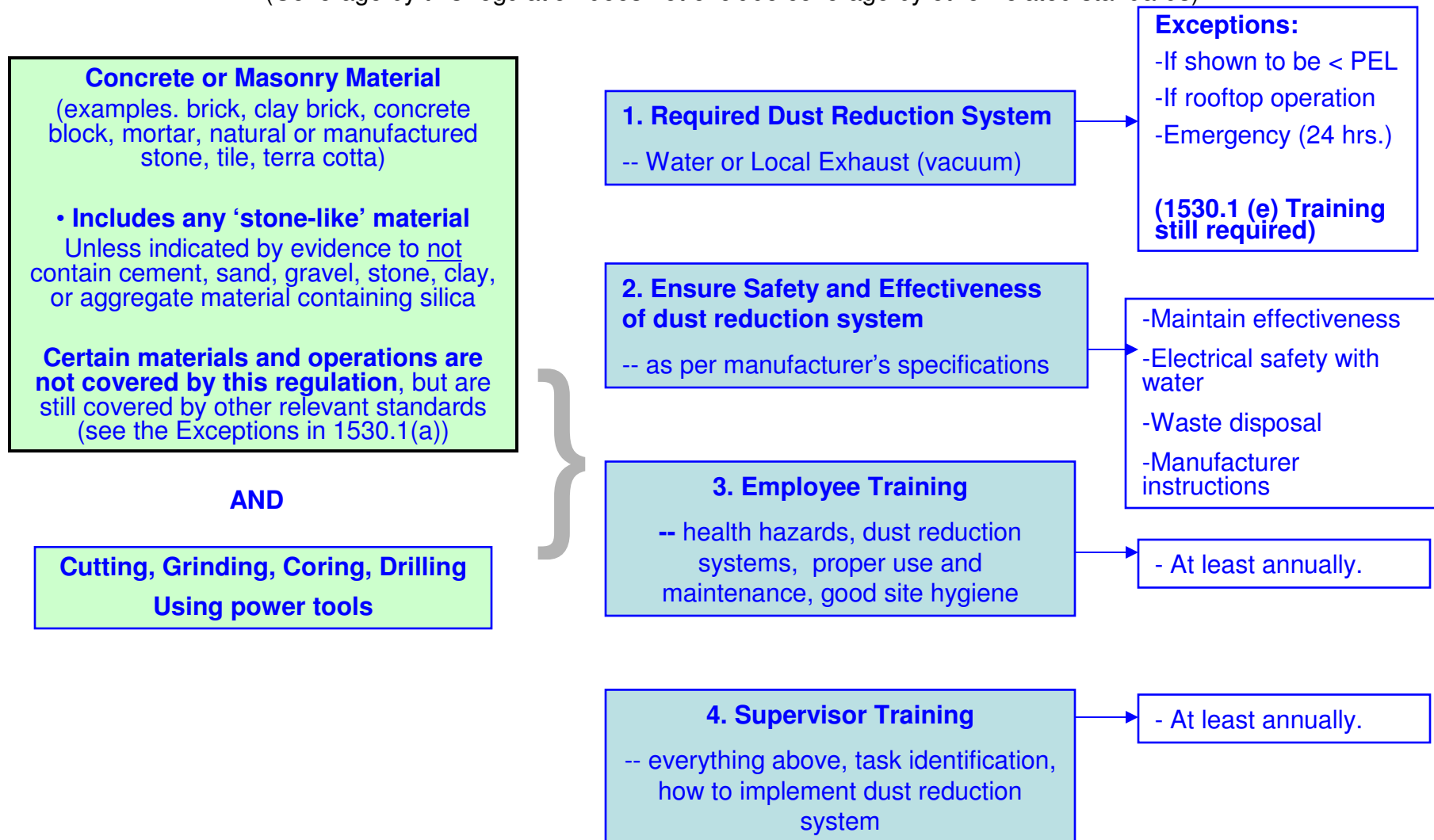
- **>60 attendees at each of 2 public meetings January 17 and March 26, 2007**
  - Contractor organizations (CAL-PASC, AGC, CEA, Roofers)
  - Labor unions (Bricklayers, Laborers, Roofers)
  - Equipment manufacturers
  - Individual workers and contractors
  - Equipment manufacturers
- **Major outcomes of the two advisory meetings:**
  - Local exhaust ventilation or water for dust control
  - Exceptions
  - Training details

### **Standards Board Public Hearing December 13, 2007**

- Only minor changes from the original proposal
- Regulation took effect October 22, 2008

**Title 8: §1530.1: Control of Employee Exposures from  
Dust-Generating Operations Conducted on Concrete or Masonry Materials  
(effective 10.22.08)**

(Coverage by this regulation does not exclude coverage by other related standards)



# Key elements of 1530.1

**1530.1(a) Scope and Application** Powered tools or equipment cutting, grinding, coring or drilling concrete or masonry materials  
(SUPPLEMENTAL to existing PELs)

**1530.1(b) Definitions** “concrete or masonry materials” “dust containment device”  
“dust reduction system” “powered tools or equipment”

**1530.1(c) Dust reduction systems**

Requires use of water or local exhaust ventilation (LEV) (see exceptions next slide)

**Note 1.** LEV can include, per definition, vacuum systems, dust collection systems, and dust exhaust systems (“fan” is not included in the definition of LEV)

**Note 2:** When water or LEV dust control system does not control below PEL, as studies indicate can happen, then need to also use other feasible controls, including potentially water with ventilation if can, to control below PEL per Title 8 section 5141

- **1530.1(d) Safe and effective use of dust reduction systems, including waste handling**
- **1530.1(e) Employee and supervisor training to be conducted annually**

# Exceptions

- **Specific operation exceptions (but not from PEL 5155)**
  - Stucco, plaster, and similar products
  - Wall cladding, siding, or similar products
  - Downward drilling
  - Jack-hammering or chipping incidental to plumbing or landscaping activity
  - Work with powder-actuated tools
  - Work incidental to installation of concrete and masonry materials
  - Tile backer board
- **Exceptions to dust controls, but specified 1530.1 training still required:**
  1. **Where reliably show by air sampling data that PEL is not exceeded**  
*(NOTE: This means sampling of the employer's own operations. Generalized data for similar operations from, for example, tool manufacturers or employer or trade associations usually will not be specific enough)*
  2. **Rooftop operations**
  3. **Emergency operations as defined (1<sup>st</sup> 24 hours)**

**NOTE: Title 8 section 5145 Media for Allaying Dusts, Fumes, Mists, Vapors, and Gases includes requirement for use of water or other liquid for dust control beyond operations specifically covered by 1530.1**

# 1530.1 Training Elements

## **For affected workers and their supervisors**

- **Silica-related diseases**
- **Methods employer uses to control dust exposures**
- **Proper use of dust controls including waste handling**
- **Good hygiene and housekeeping**

## **Additional information for supervisors**

- **Work tasks which may result in exposures to silica dust**
- **The employer's procedures for implementing the required dust control measures**

## **Periodic training**

- **Conducted at least annually**



# Information Resources

- **DOSH Policy & Procedure C-51 Crystalline Silica Inspection Guidelines with emphasis on exposure to concrete and masonry dust in construction per 8 CCR section 1530.1 (4/23/09)**  
**<https://www.dir.ca.gov/DOSH/Pol/P&PC-51.HTM>**
- **Cal/OSHA Consultation Silica “e-tool”**  
**<https://www.dir.ca.gov/dosh/etools/08-019/index.htm>**
- **Cal/OSHA Consultation Silica Hazard Alert**  
**[https://www.dir.ca.gov/dosh/dosh\\_publications/P08-019V3.pdf](https://www.dir.ca.gov/dosh/dosh_publications/P08-019V3.pdf)**  
**Spanish: [https://www.dir.ca.gov/dosh/dosh\\_publications/P08-019V3s.pdf](https://www.dir.ca.gov/dosh/dosh_publications/P08-019V3s.pdf)**
- **NIOSH Pub. 2008-126:Control of Hazardous Dust During Tuckpointing**  
**<http://www.cdc.gov/niosh/docs/wp-solutions/2008-126/>**
- **What Physicians Need to Know About Silicosis in Construction, Demolition, and Renovation Workers**  
**<http://www.cdc.gov/elcosh/docs/d0500/d000599/d000599.html>**
- **Cal/OSHA Standards Board website for 1530.1 with rulemaking documentation**  
**<https://www.dir.ca.gov/oshsb/concreteandmasonry0.html>**