



# Commonwealth of Massachusetts Executive Office of Labor and Workforce Development



## Marvin Lewiton, M.S., CIH On-Site Consultation Program Industrial Hygiene Supervisor

Charlie Baker, Governor  
Ronald Walker II, Secretary



- ▶ Massachusetts Department of Labor Standards
- ▶ On-Site Consultation



- ▶ United States Department of Labor
- ▶ Occupational Safety and Health Administration (OSHA)

# MA On-Site Consultation Program

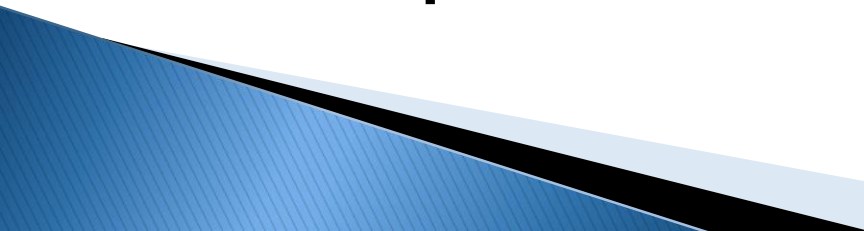
- ▶ Consultation operates in every state
- ▶ Most of funding from OSHA, but separate by design

6 Safety Professionals  
5 Industrial Hygienists


Offices in Westborough,  
Lawrence, & Taunton



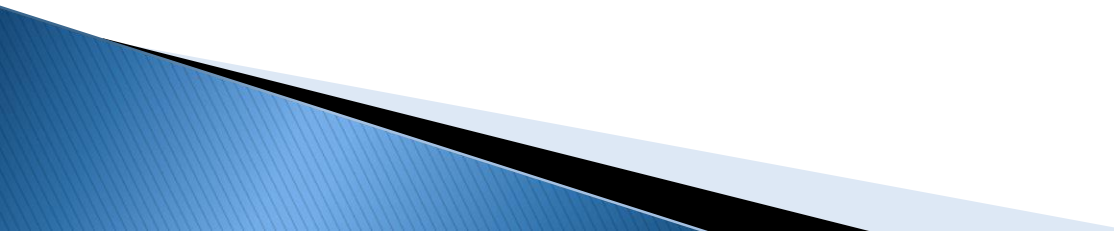
# On-Site Consultation

- ▶ Free!
  - ▶ Confidential
  - ▶ Employers must request help
  - ▶ Focus on small, high hazard businesses
  - ▶ Manufacturing, construction, healthcare, food processing
  - ▶ No penalties or fines
- 


# What we do:

- ▶ On-Site Surveys
  - ▶ Technical information via phone/email
  - ▶ Training for employers/employees
  - ▶ Provide model safety and health programs
  - ▶ Assist in evaluating, developing or maintaining an effective Safety and Health Program
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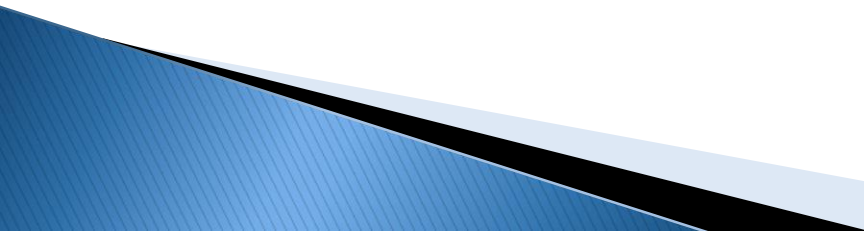
# What we DON'T do:

- ▶ Issue citations or fines
  - ▶ Tell OSHA where we go, what we see, who we talk with, etc.
  - ▶ Guarantee workplaces will “pass” an OSHA inspection
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# How we work:

- ▶ Request & schedule visit
  - ▶ Opening conference
  - ▶ Review of records, written programs
  - ▶ Site walkthrough (air, noise monitoring)
  - ▶ Closing conference
  - ▶ Written report mailed to employer
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# Employer's responsibility after visit

- ▶ Correct identified hazards
  - ▶ Send abatement information
  - ▶ Corrections by due date
  - ▶ Extensions by written request, explain interim protection provided
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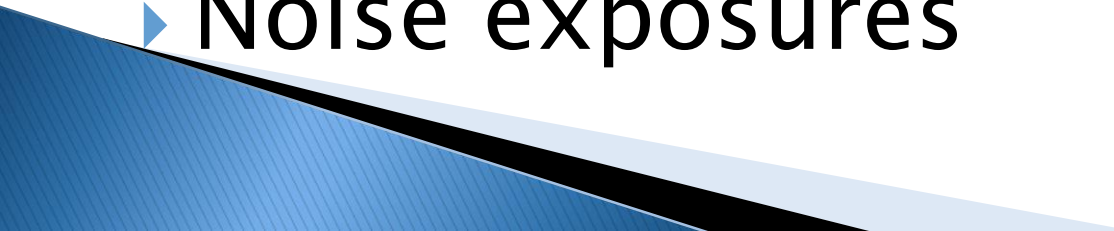
# What does OSHA look for?

## Written Programs:

- Hazard Communication Program
  - Respiratory Protection Program
  - Accident Prevention Program
  - Recordkeeping (300 Log, medical)
- 

# What does OSHA look for?

## **Physical hazards:**

- ▶ Falls
  - ▶ Trench & excavation hazards
  - ▶ Vehicle hazards
  - ▶ Electrical hazards
  - ▶ Machine guarding
  - ▶ Chemical exposures
  - ▶ Noise exposures
- 

# Most frequently cited: Construction:

- ▶ Fall Protection, residential construction ([1926.501\(b\)\(13\)](#)): 19,367 violations
- ▶ Ladders, portable (not 3' above surface) ([1926.1053\(b\)\(1\)](#)): 7,192
- ▶ Fall Protection, guard rails (unprotect. edge) ([1926.501\(b\)\(1\)](#)): 6,387
- ▶ Training Requirements (fall hazards, etc.) ([1926.503\(a\)\(1\)](#)): 6,175
- ▶ Eye and Face Protection (safety glasses) ([1926.102\(a\)\(1\)](#)): 5,835

# Most frequently cited: Construction:

- ▶ Head Protection (Hard hats)  
([1926.100\(a\)](#)): 4,997
- ▶ Scaffolds, fall protection (ladder jacks)  
([1926.451\(g\)\(1\)](#)): 3,708
- ▶ Scaffolds, aerial lifts (no tie off)  
([1926.453\(b\)\(2\)\(v\)](#)): 3,438
- ▶ Fall Protection, low-slope roofs (general)  
([1926.501\(b\)\(10\)](#)): 3,361
- ▶ Scaffolds, access (no ladder, etc.)  
([1926.451\(e\)\(1\)](#)): 2,993



# Fall prevention

**Bottom line:** anyone exposed to a fall of six feet or more needs to be protected.

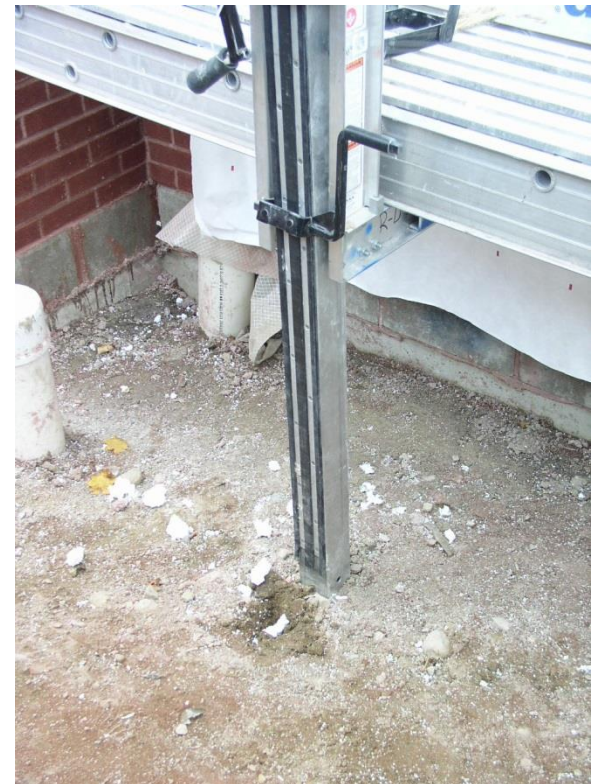
- ▶ Guardrails (top and midrail)
- ▶ Personal fall protection system
- ▶ Warning lines / monitor\*

(\*ONLY for roofing on low-slope roof)

# Fall prevention

## Pump jack scaffolds:

- ▶ Anchored at top and bottom of pole
- ▶ Mud sill or equivalent
- ▶ Top rail and midrail (net)
- ▶ End rails
- ▶ Platform overlap



# Fall prevention

## Ladderjack scaffolds:

- ▶ Ladder base secured
- ▶ Platform maximum height of 20'
- ▶ Platform overlap same as pump jacks
- ▶ NO bridging of planks
- ▶ Must use personal fall protection



# Fall prevention

## Ladders:

- ▶ Bring the right size ladder
- ▶ Use only as manufacturer intended
- ▶ 3 points of contact
- ▶ Fiberglass for electrical
- ▶ Stable footing
- ▶ 3' above surface
- ▶ Setup angle
- ▶ Inspection



# Fall prevention

General:

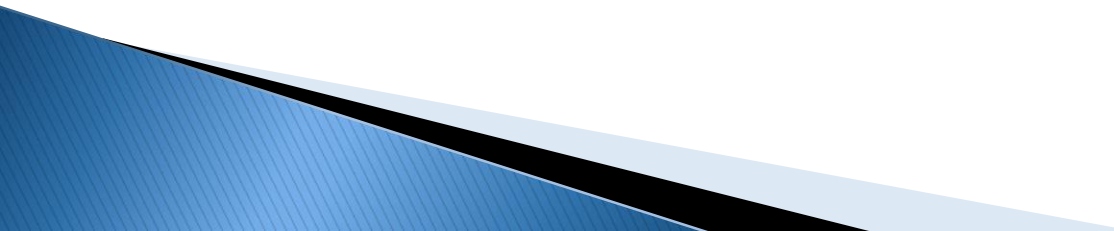
Daily inspection by  
**Competent person\***

(\*who has the authority to shut job down)

Aerial lifts: Must be tied off in bucket  
or platform



# Respirable Crystalline Silica

- ▶ Naturally occurring mineral (quartz)
  - ▶ Stone, concrete, granite, brick, asphalt, mortar, cementitious board (Hardie Board), joint compound, etc.
  - ▶ Exposure through cutting, grinding.
- 

# Respirable Crystalline Silica

- ▶ Health effects include silicosis, COPD, bronchitis, & lung cancer



New OSHA Permissible Exposure Limit  
effective June 2017: 50  $\mu\text{g}/\text{m}^3$  TWA

# Respirable Crystalline Silica

## Requirements for employers:

- ▶ Written Exposure Control Plan
- ▶ Competent person to implement plan
- ▶ Housekeeping practices
- ▶ Medical exams
- ▶ Training– tasks, how to reduce exposures
- ▶ Recordkeeping (exposures and exams)

# Respirable Crystalline Silica

## Construction - Specified Exposure Control Methods

- ❖ Table 1 in the construction standard matches 18 tasks with effective dust control methods and, in some cases, respirator requirements.
- ❖ Employers that fully and properly implement controls on Table 1 do not have to:
  - Comply with the PEL
  - Conduct exposure assessments for employees engaged in those tasks

# Respirable Crystalline Silica

**Table 1. Exposure Control Methods for Selected Construction Operations**

Operation	Engineering and Work Practice Control Methods	Required Air-Purifying Respirator (Minimum Assigned Protection Factor)	
		≤4 hr/day	>4 hr/day
<b>Using Stationary Masonry Saws</b>	Use saw equipped with integrated water delivery system. (Plus additional specifications)	None	Half-Mask (10)







# Respirable Crystalline Silica



# Respirable Crystalline Silica

## Respiratory protection

- ▶ Respiratory Protection Program
- ▶ Medical evaluation \*
- ▶ Fit testing
- ▶ Training



# Hazard Communication

- ▶ Written program
- ▶ Safety Data Sheets (was MSDS)
- ▶ Labeling
- ▶ Training



# Hazard Communication

## Written Program:

Who is responsible for Safety Data Sheets

Who is responsible for labeling

Inventory list of hazardous materials

Who is responsible for training

Who you go to with questions



# Hazard Communication

## ▶ Safety Data Sheets (was MSDS)

## ▶ Labels (GHS)

### **Acetone**

**Danger!**

**Highly flammable liquid vapor. Causes severe eye irritation.**



Keep away from heat, sparks and flame – No smoking. Take precautionary measures against static discharge. Keep from direct sunlight. Keep container closed when not in use. Store in a cool/low temperature, well-ventilated place away from heat and ignition sources. Use only in a well-ventilated area. Avoid contact with eyes, skin and clothing. Wear appropriate personal protective equipment, avoid direct contact.

**IF CONTACT WITH EYES: Flush eyes with water for at least 15 minutes while holding eyelids open.**

**In case of fire, use water spray, fog or mist. Dry chemicals. Halon. Powder, foam or CO2.**

See Safety Data Sheet for further details regarding safe use of this product.

ABC Company, Main Street, Anytown, NJ 00000, Tel: 555 123 4567



Fad

MC 2016L

Do NOT  
DRINK

# Hazard Communication

## Training:

- ▶ What am I working with?
- ▶ How can it hurt me?
- ▶ How do I use it safely?







# Eye and face protection

Why bother?



# Questions?

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