



Who is Liuna?

- Our partner union → Union Reps
- Laborers International Union of North America
- Partnered with two of their local branches here in the Bay Area: Local 67 and Local 270
- Local 67 (Northern Cal) represents abatement workers
- Local 270 (San Jose) represents construction workers
- LiUNA workers are exposed to silica in their job tasks









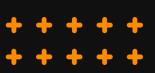
What Is Silica?

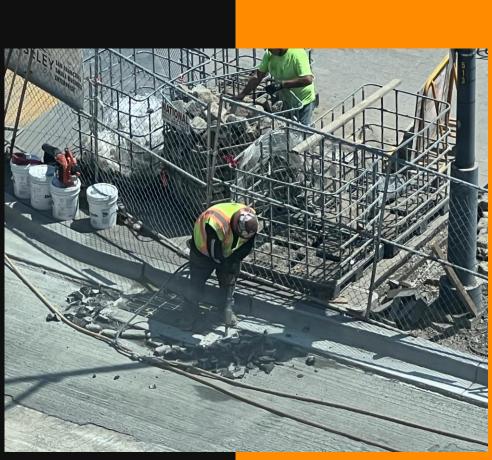
Silica is a natural compound of silicon and oxygen. It is produced when cutting, grinding, pulverising and mixing products that contain silica. Silica is especially prevalent in cement/rock. It's known as hazard and carcinogen but is rarely acknowledged as so in the industry.



Symptoms and Outcomes:

- Untreatable lung cancer
- Scarring of the lung tissue
- Silicosis
- Tightness of the chest
- Kidney disease
- Shortness of breath







Our Overall Project Goals were to:

Survey workers about their knowledge of silica hazards and controls.

- Learn what types of silica dust controls are being used on sites.
- 13 Identify barriers and enablers of proper dust controls usage.

- Assess overall levels of compliance with the Cal OSHA Silica Standard by LiUNA contractors.
- Compare differences of LiUNA contractor compliance with the Cal OSHA Silica Standard between abatement and construction workers.
- Make recommendations to LiUNA and contractors on improving compliance with the silica standard.







Methods

Surveys

- English and Spanish
- General laborer
- Foreman
- Safety Supervisor
- Trainer

Total: 138 surveys

Informational Interview

- Superintendents from multiple companies

Tailgate Meetings

- Presented bilingual (Spanish and English) silica hazard safety tailgate meetings to workers on job sites.

Data Analysis

 Organizing and reviewing survey responses to create quantitative and qualitative data

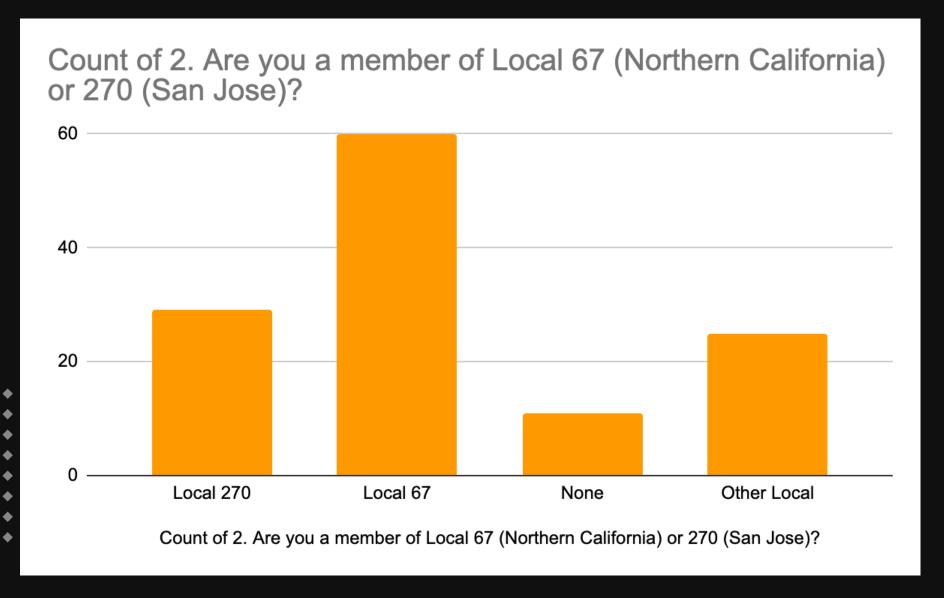






Results - Demographic

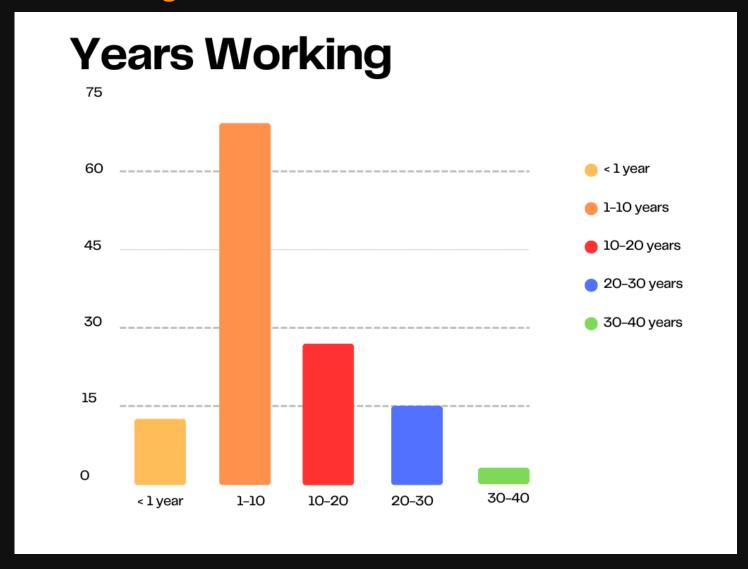
LOCAL #: Construction v Abatement



Gender

Mostly all were men

Time Working

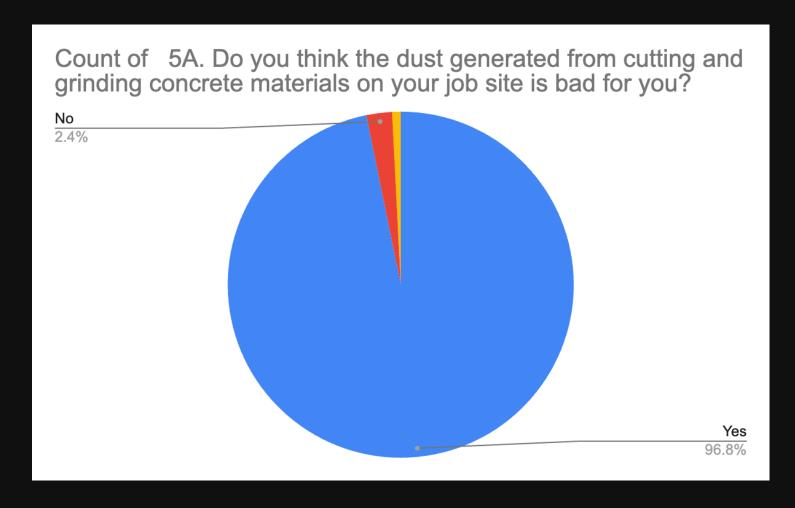


Race/Ethnicity Latino/Hispanic majority



Results - Silica and Hazard Recognition

Do you think exposure to construction dust is bad for your health?



Top 3 common health concerns

- Lung cancer
- Respiratory issues/disease
- Silicosis

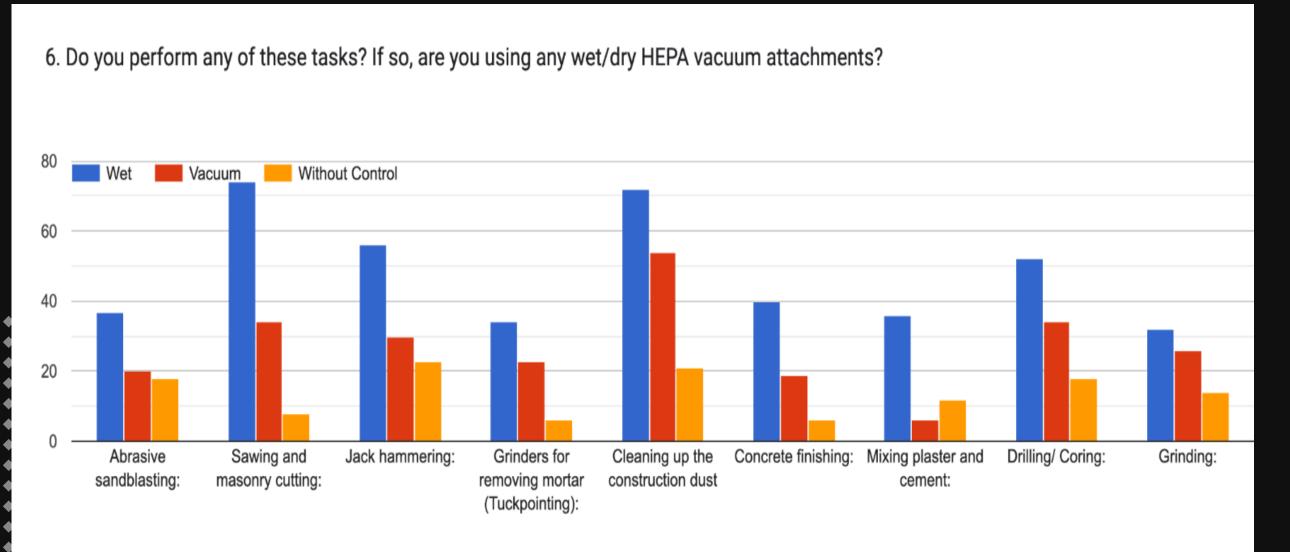
Have you received training on silica?





Results - Engineering Controls

Do you do these job tasks and do you use any dust control methods?







Attachment





Recommendations

Have more training focusing on Silica through both the local training centers and the construction sites.

Implement better respiratory protection training

Ensure labores understand the information providing it in both English and Spanish.

Encourage contractors to standardize engineering controls on tools





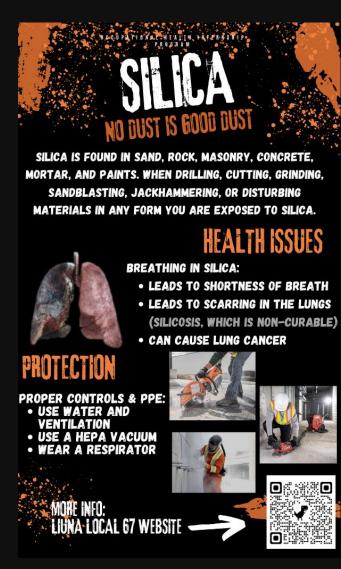
Give Back Product

2. Silica Safety Hazard Posters

1. Tailgate Safety Meeting







3. Hard Hat Stickers + Shirts

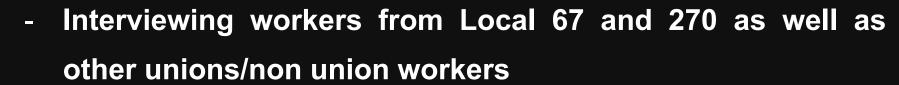






Successes

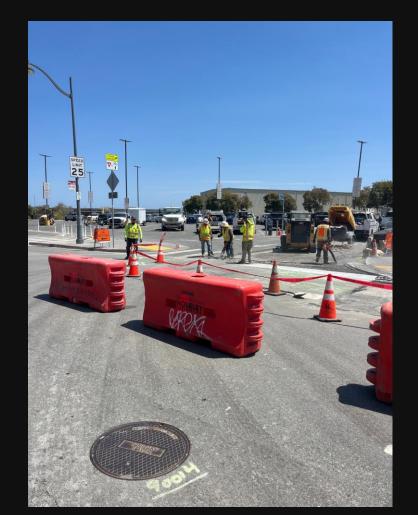




- The amount of workers we surveyed (Total: 138)
- Access to job sites
- Job site walk throughs
- Interviewing different laborer positions
- Attending two different union local member meetings
- Gained a much deeper understanding of silica hazards











Challenges

- Challenging to find construction sites to interview workers at
- Construction specific language was difficult to interpret at times
- Translating surveys and interviews from English to Spanish
- Completing multiple surveys at once
- Cut questions from surveys







Personal Reflection





OHIP 2024













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Association of Occupational and Environmental Clinics





Funders







