Meet Today’s Webinar Team

Presenter: Laurelle Bednar
Laurelle is a training consultant for Texas Mutual’s safety services department. She conducts webinars, presentations and creates e-Learning content for our policyholders and internal departments. Laurelle holds a bachelor’s and master’s degree in anthropology from California State University Fullerton.

Presenter: Ashley Mikytuck
Ashley is a technical writer for Texas Mutual’s safety services department. She joined the safety services support center in early 2015 as a safety representative and is now assisting the department with written safety content. Ashley holds a bachelor’s degree in urban studies from the University of Texas.

Moderator: Hannah Bolton
Hannah is a safety services representative for Texas Mutual's safety services support center. She provides internal support for the safety services department, and provides policyholder support by answering questions through our worksafe number. Hannah has a degree in Communications from Texas A & M University, Corpus Christi.

OSHA's Silica Standard

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Agenda

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Silica 101

Regulatory background

Employer requirements

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Silica 101

Silica 101

Effects of silica exposure

Lung cancer

Silicosis

COPD

Kidney disease

Signs of silicosis

Chronic dry cough

Fatigue

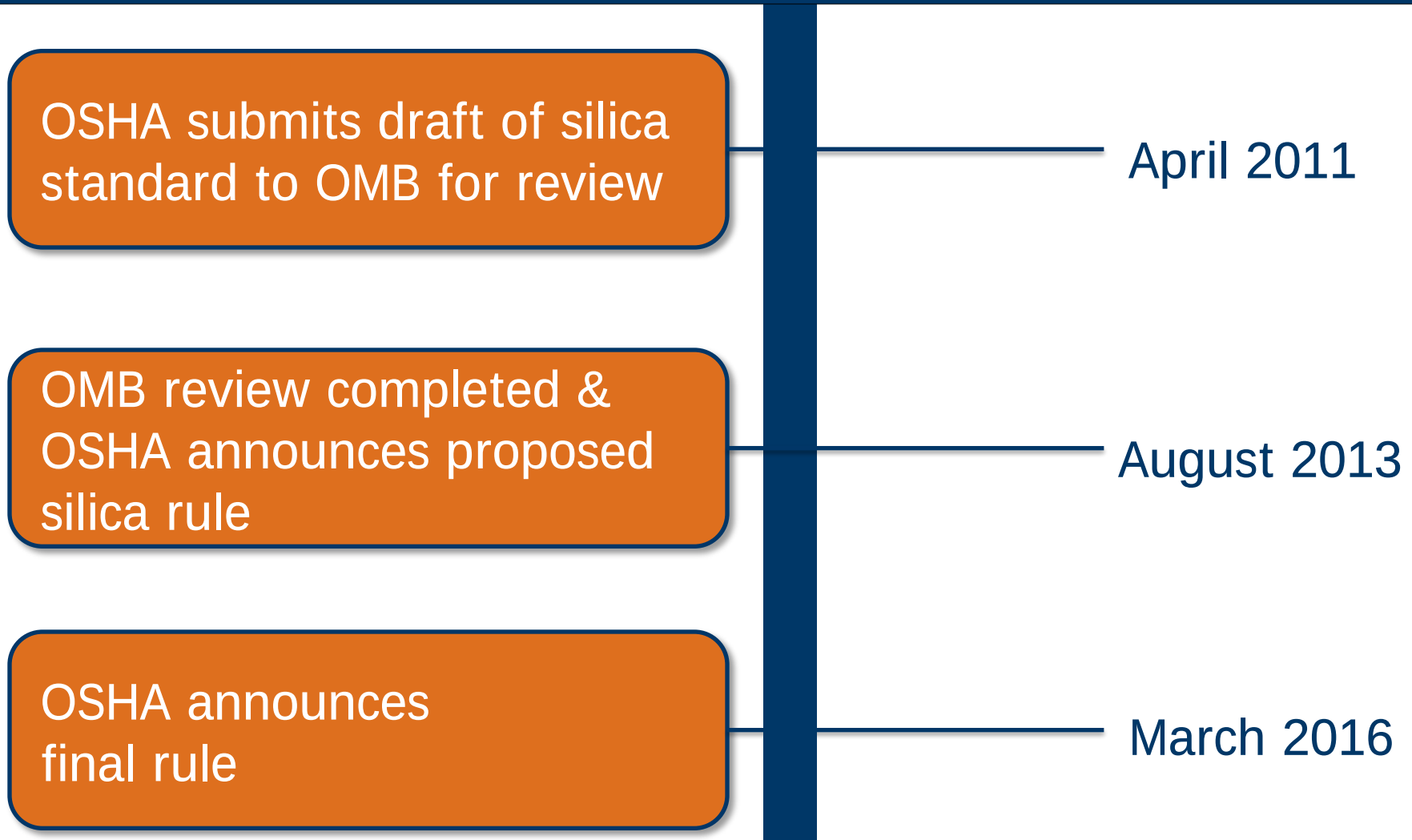
Weight loss

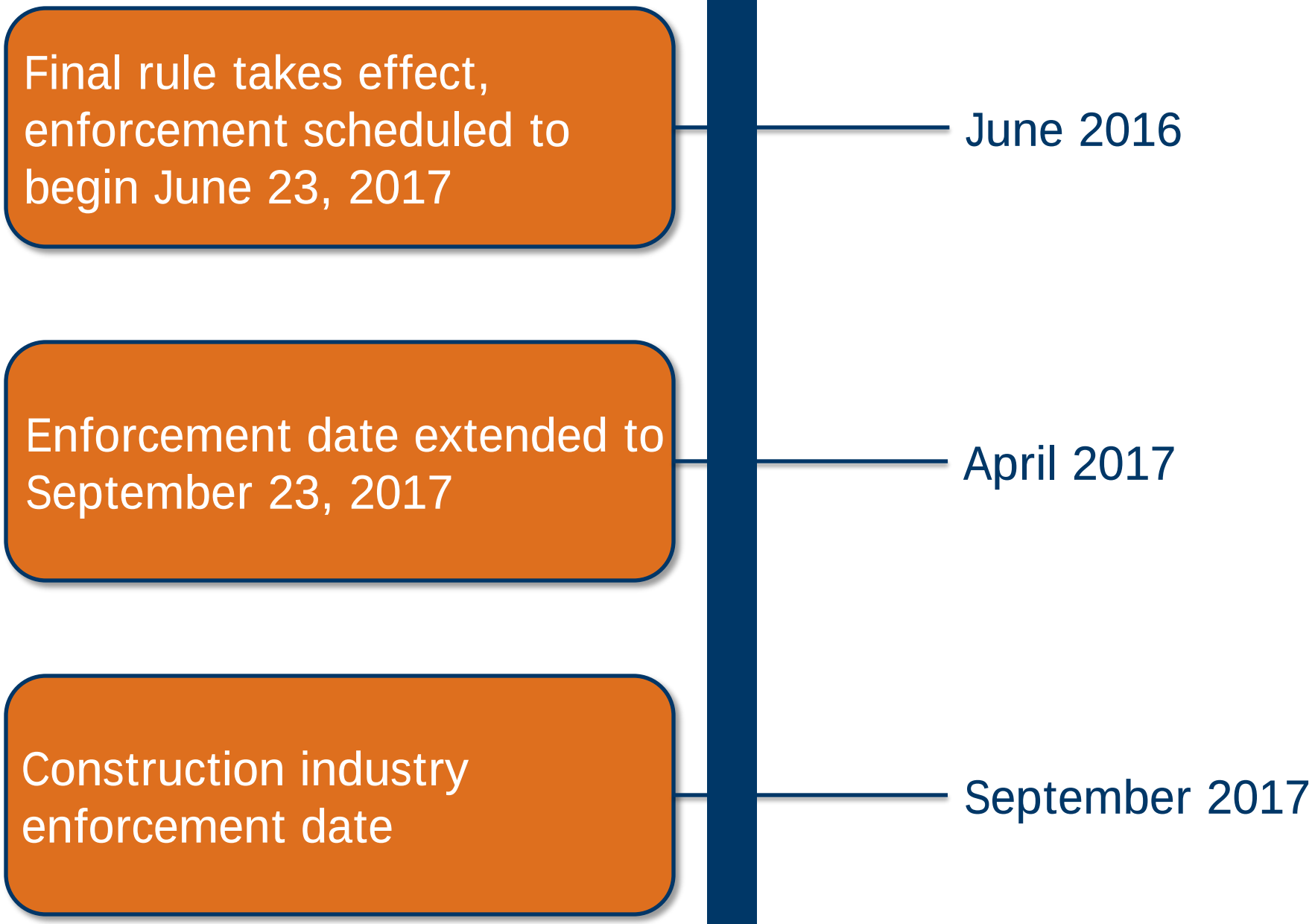
Shortness of breath

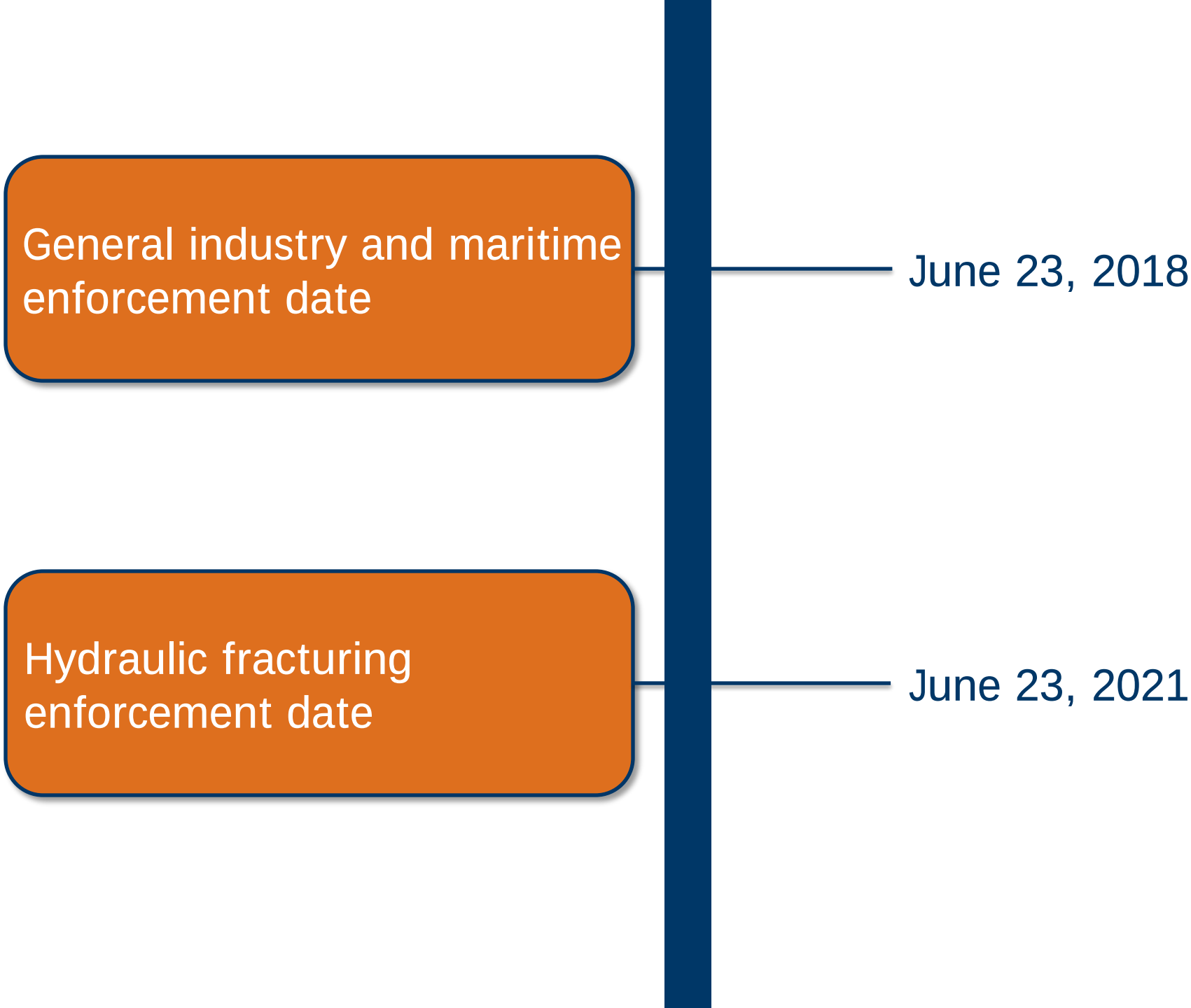
Respiratory failure

Silica exposure

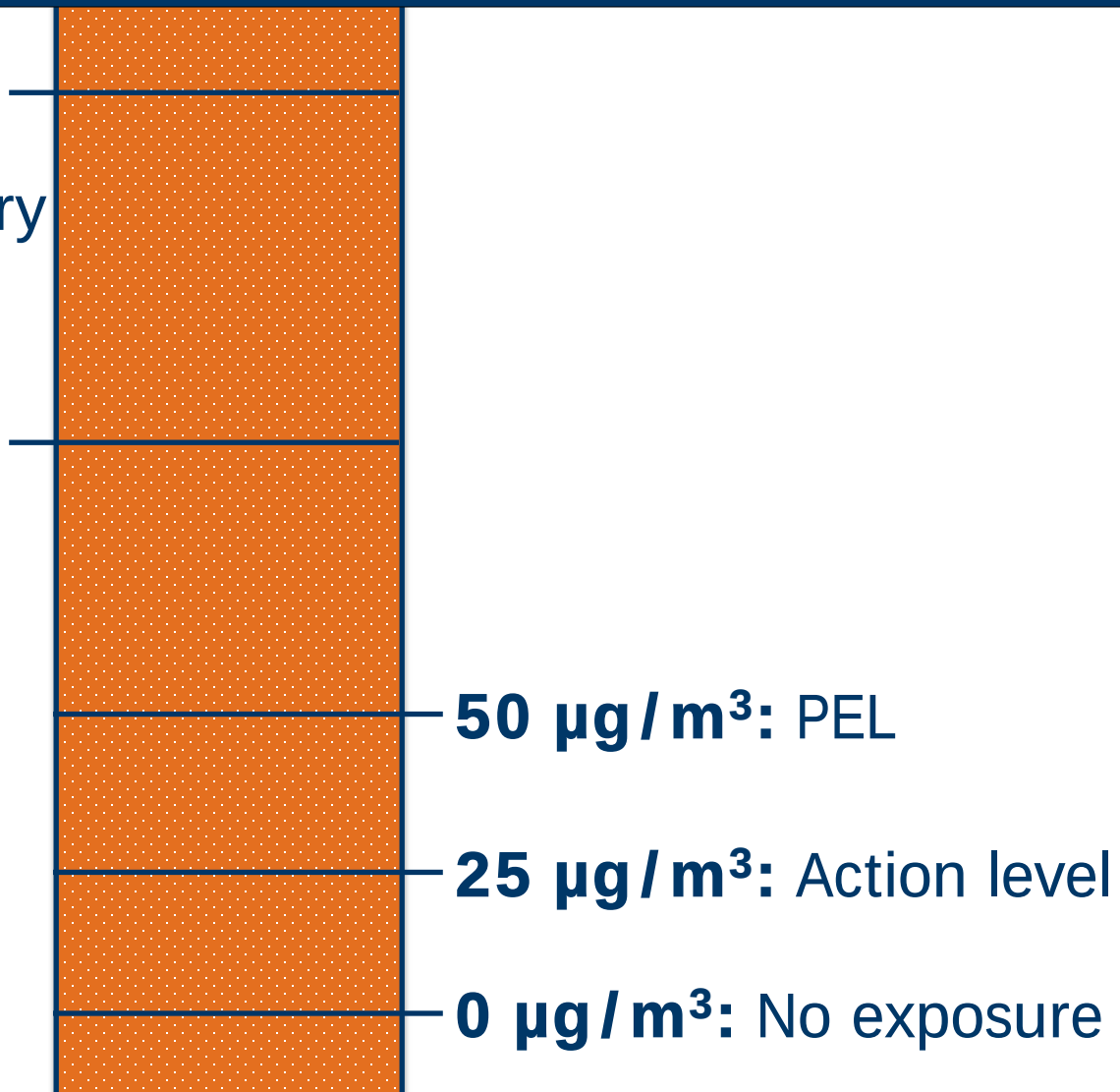
Silica standard timeline




Final rule takes effect, enforcement scheduled to begin June 23, 2017
June 2016
Enforcement date extended to September 23, 2017
April 2017
Construction industry enforcement date
September 2017


General industry and maritime enforcement date
June 23, 2018
Hydraulic fracturing enforcement date
June 23, 2021

Key provisions



Employer requirements

Use engineering controls

Provide respirators if needed

Limit access to high exposure areas

Develop exposure control plan

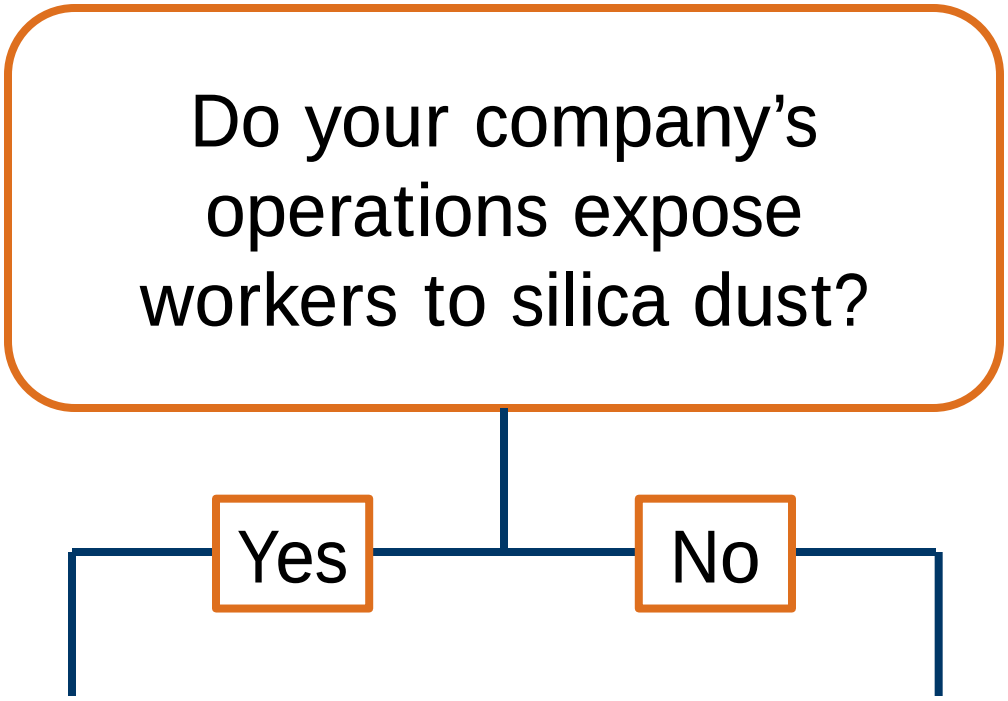
Offer medical exams

Train workers on silica risks

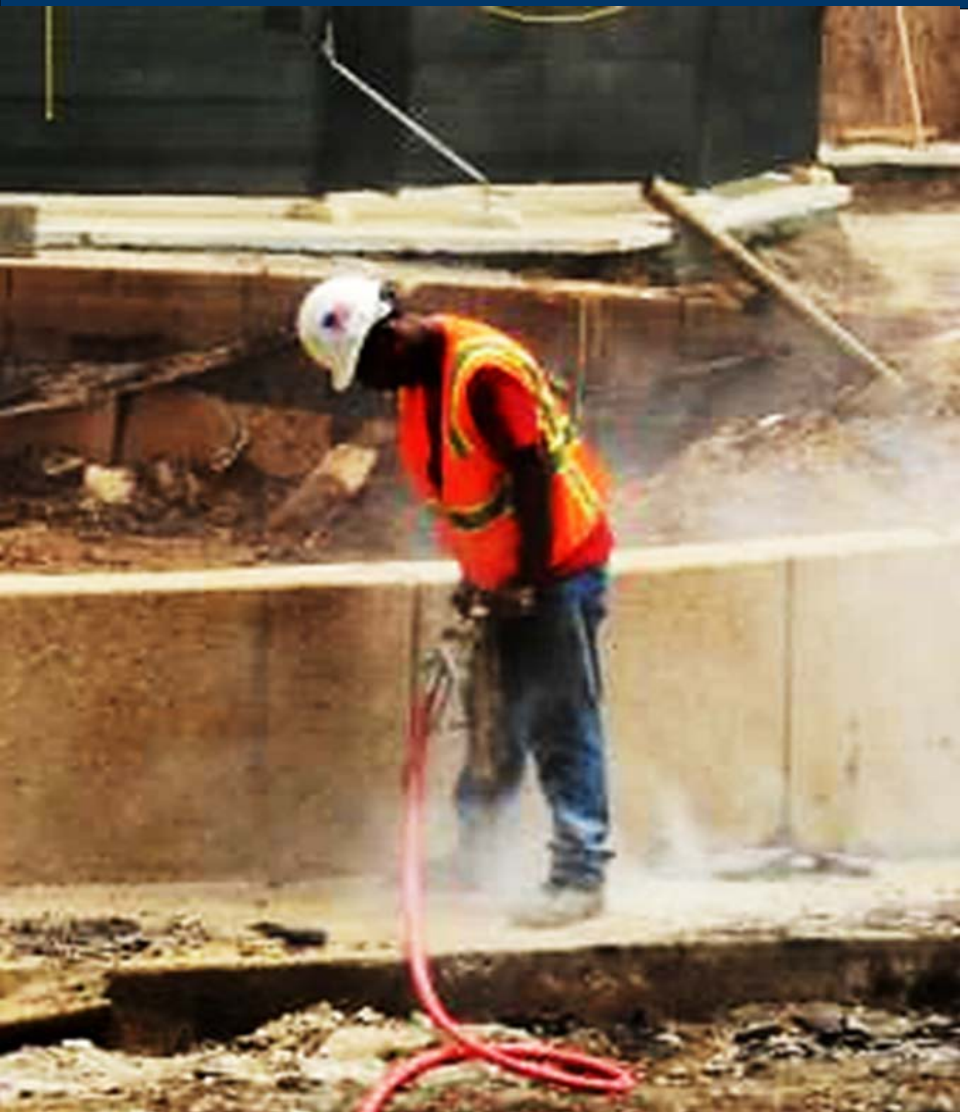
What do you need to do?

Keep employees' silica exposure below 50 µg/m^3

What do you need to do?

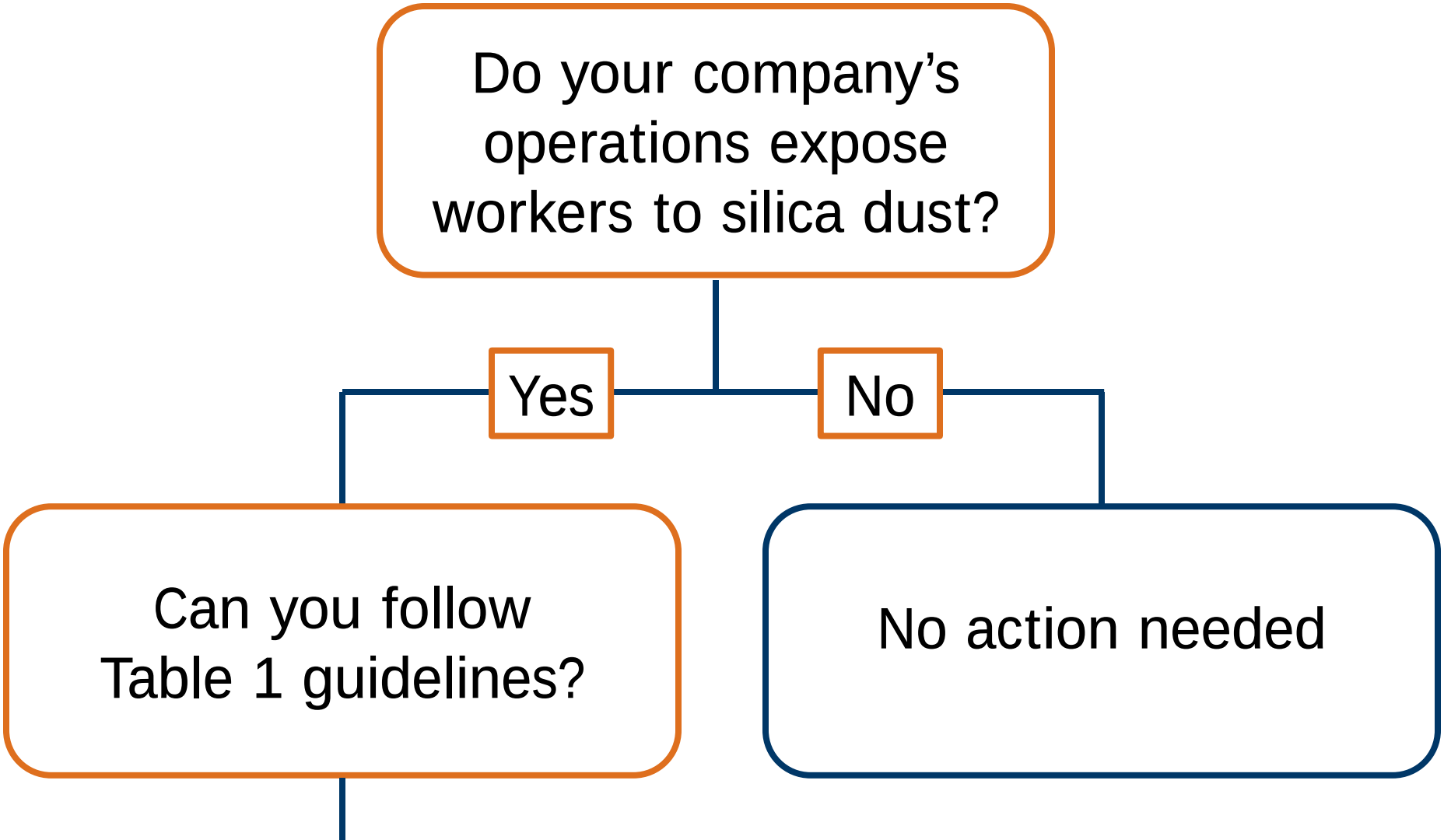


Do your operations expose workers to silica dust?



- Glass & concrete products
- Abrasive blasting
- Painting & coating
- Foundries
- Dental laboratories
- Jewelry production

What do you need to do?



Can you follow Table 1 guidelines?

Located in 29 CFR § 1926.1153

Lists OSHA-approved exposure control methods

18 specific equipment/task examples provided

Table 1

Equipment/ Task	Engineering and Work Practice Control Methods	Required Respiratory Protection and Minimum Assigned Protection Factor (APF)	
		≤ 4 hours /shift	> 4 hours /shift
(i) Stationary masonry saws	Use saw equipped with integrated water delivery system that continuously feeds water to the blade. Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.	None	None

Table 1

Equipment/ Task	Engineering and Work Practice Control Methods	Required Respiratory Protection and Minimum Assigned Protection Factor (APF)	
		≤ 4 hours /shift	> 4 hours /shift
(ii) Handheld power saws (any blade diameter)	Use saw equipped with integrated water delivery system that continuously feeds water to the blade. Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions. – When used outdoors. – When used indoors or in an enclosed area.	None APF 10	APF 10 APF 10

Respiratory protection information

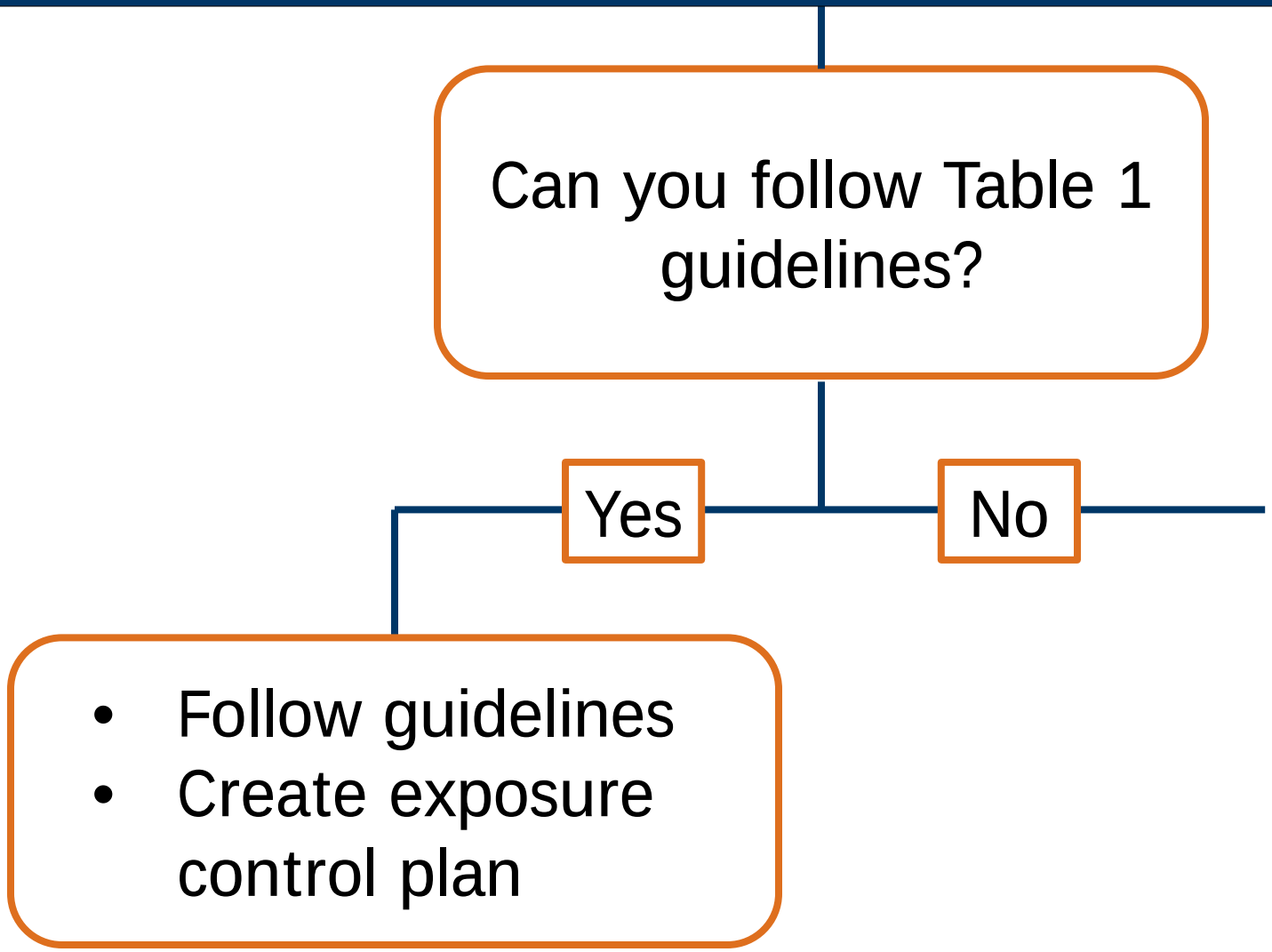
Table I: Assigned Protection Factors[5]

Type of Respirator[1,2]	Quarter mask	Half mask	Full facepiece	Helmet/Hood	Loose-fitting facepiece
1. Air-Purifying Respirator	5	10[3]	50	–	–
2. Powered Air-Purifying Respirator (PAPR)	–	50	1,000	25/1,000[4]	25
3. Supplied-Air Respirator (SAR) or Airline Respirator					
• Demand mode	–	10	50	–	–
• Continuous flow mode	–	50	1,000	25/1,000[4]	25
• Pressure-demand or other positive-pressure mode	–	50	1,000	–	–
4. Self-Contained Breathing Apparatus (SCBA)					
• Demand mode	–	10	50	50	–
• Pressure-demand or other positive-pressure mode (e.g., open/closed circuit)	–	–	10,000	10,000	–

APF chart available in 29 CFR 1910.134

Types of respirators

What do you need to do?



Exposure control plan elements

Control measures in place

Housekeeping measure

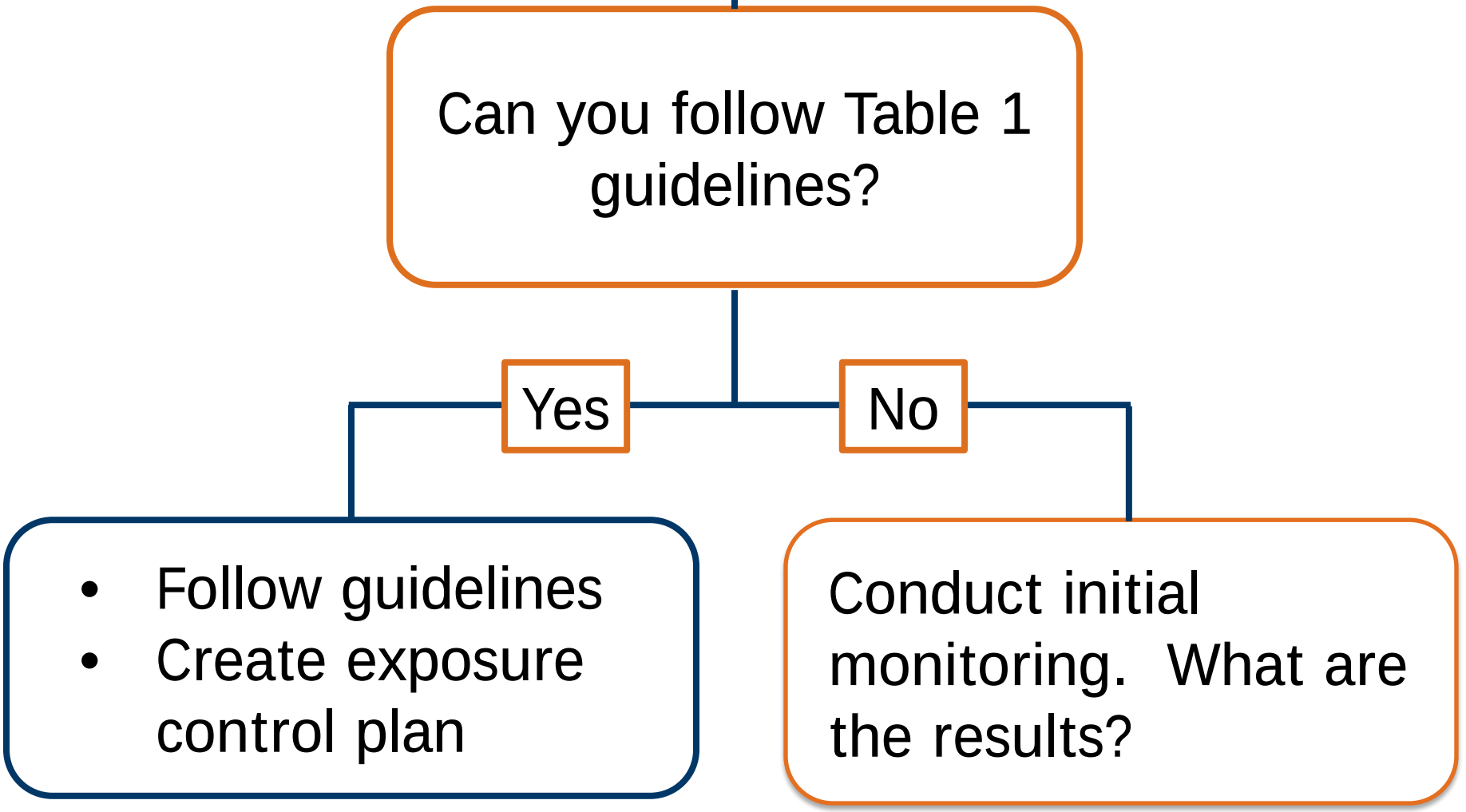
Medical surveillance

Inform employees of overexposure

Post warning signs

Records of exams & air monitoring

Next steps


Can you follow Table 1 guidelines?
Yes
No
• Follow guidelines
• Create exposure control plan
Conduct initial monitoring. What are the results?

Initial air monitoring procedures

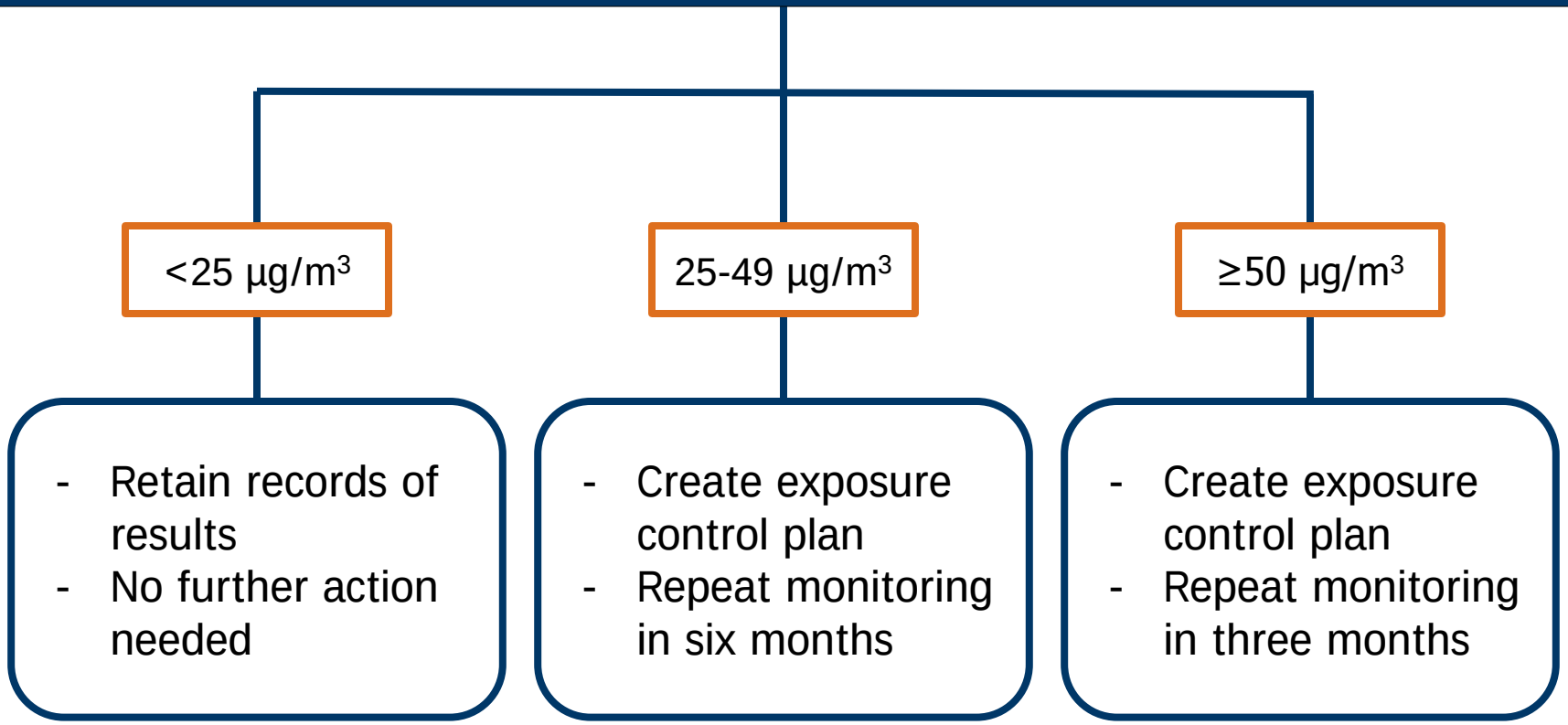
Choose a representative sample of employees

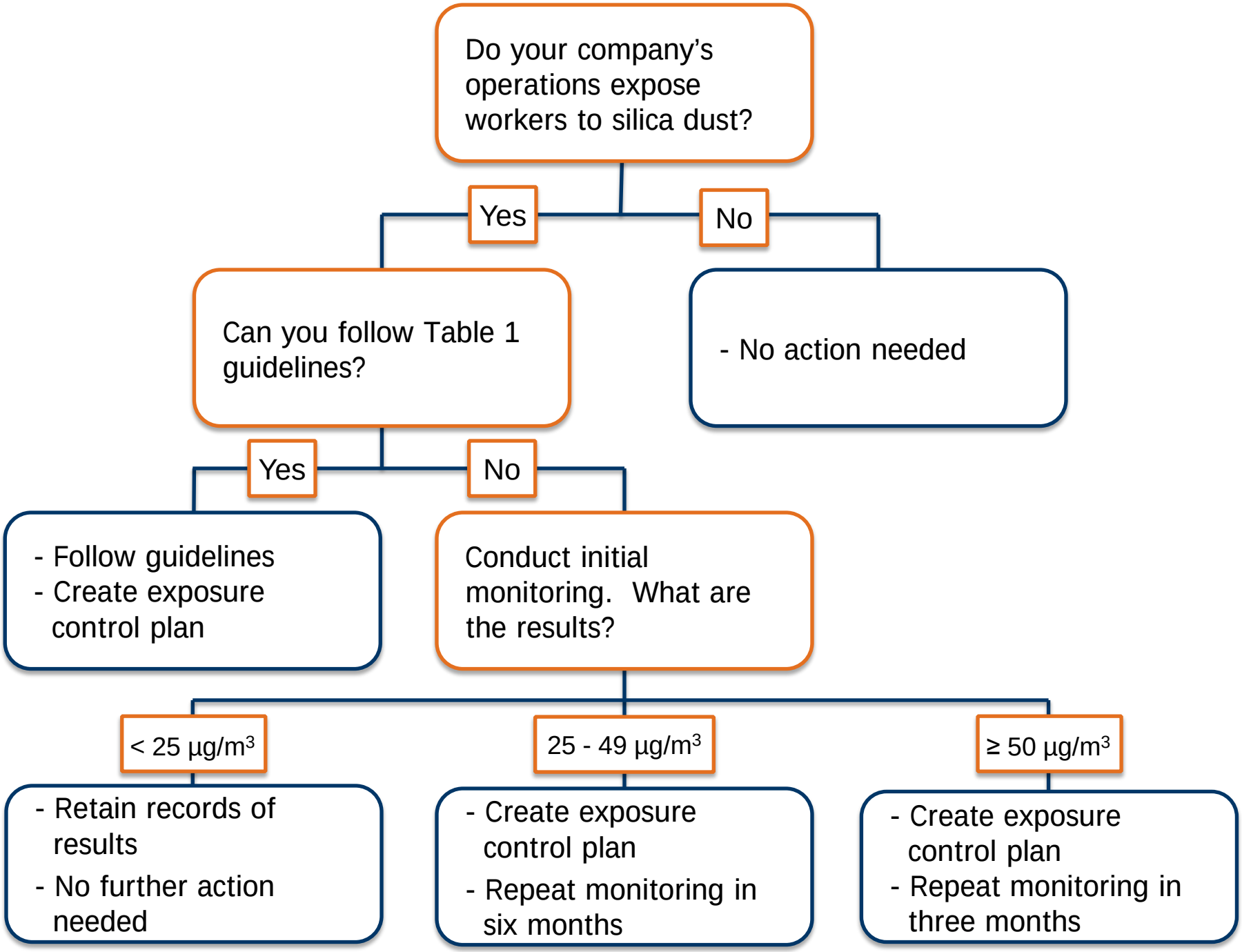
Provide personal dosimeters

Sample for eight hours

Send the samples to a lab

Next steps


<25 µg/m3
25-49 µg/m3
≥50 µg/m3
- Retain records of results
- No further action needed
- Create exposure control plan
- Repeat monitoring in six months
- Create exposure control plan
- Repeat monitoring in three months


Do your company's operations expose workers to silica dust?
Yes
No
- No action needed
Can you follow Table 1 guidelines?
Yes
No
- Follow guidelines
- Create exposure control plan
Conduct initial monitoring. What are the results?
< 25 µg/m3
25 - 49 µg/m3
≥ 50 µg/m3
- Retain records of results
- No further action needed
- Create exposure control plan
- Repeat monitoring in six months
- Create exposure control plan
- Repeat monitoring in three months

Texas Mutual can help

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Safety programs

Safety training resources

Summary

Follow table 1 guidelines

Document exposure control plan & air monitoring results

Use your resources

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Summary

Follow table 1 guidelines

Document exposure control plan & air monitoring results

Use your resources

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Thank You

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