

# Silica Task Specific Written Exposure Control Plan

0206500\_CP\_11\_25\_en\_A3



## SECTION I – Job Description

Date:	Company Name:
Work Area:	Operator Name:

Description of Work:

## SECTION II – Tool Selection

<input type="checkbox"/> Stationary Mason Saw(s) <input type="checkbox"/> Handheld Power Saw(s) <input type="checkbox"/> Walk behind Saw(s) <input type="checkbox"/> Drivable Saw(s) <input type="checkbox"/> Rig-mounted Core Saw(s) or Drill(s) <input type="checkbox"/> Handheld and Stand Mounted Drill(s) (includes impact and rotary hammer drills) <input type="checkbox"/> Crushing Machine(s) <input type="checkbox"/> Sandblasting (with media containing silica, and/or surfaces containing silica)	<input type="checkbox"/> Dowel Drilling Rig(s) <input type="checkbox"/> Vehicle-Mounted Drilling Rig(s) <input type="checkbox"/> Jackhammer(s) and Handheld Powered Chipping Tool(s) <input type="checkbox"/> Handheld Grinder(s) <input type="checkbox"/> Walk-behind Milling Machine(s) and Floor Grinder(s) <input type="checkbox"/> Drivable Milling Machine(s) <input type="checkbox"/> Heavy Equipment and Utility Vehicle(s) (w/ attachments for demo, grading, excavating)
---	---

## SECTION III – Control Method

Complete either Option 1 or Option 2 for the control method implemented.

### OPTION 1 (Reference OSHA Table 1 on Back Page)

Check all that apply:

- ☐ OSHA Control Method Fully Implemented  
☐ <4 Hours Exposure ☐ >4 Hours Exposure

Respiratory Protection Required **Yes** or **No**

### Required Exposure Reduction Steps:

- ☐ Housekeeping Practices (Exposure Reduction)  
☐ Written Exposure Plan Available  
☐ Employee Medical Surveillance  
(Required for employees who must wear a respirator  
under the silica standard for 30 or more days a year.)  
☐ Crystalline Silica hazards communicated to  
affected employees.

*Note: For task involving tools that create  
crystalline silica exposure that are not listed in  
OSHA table 1, ie. mortar mixing, must comply with  
Option 2.*

### Option 2 (Alternative Controls)

- ☐ The crystalline silica exposure level has been  
assessed through industrial hygiene testing, well  
documented procedures for measuring and controlling  
dust and/or historical air monitoring conducted by the  
employer for the work being performed is below the  
OSHA PEL of 50 µg/m<sup>3</sup>.  
☐ Written Exposure Plan Available

### Alternative Methods Compliance

Check all that Apply:

#### Engineering Controls

- ☐ Wet Methods to control dust  
☐ Local Exhaust to capture dust  
☐ Isolation from dust exposure

#### Recommended Work Practices

- ☐ Inspection/Maintenance of Controls  
☐ Proper water nozzle for wet methods  
☐ Hoses for water or dust collection have  
proper flow of air or water.  
☐ Wetting down silica before sweeping  
☐ Modify work schedule to reduce number  
of employees exposed to silica.  
☐ Respiratory Protection Required  
☐ Housekeeping Practices

## SECTION IV – Permit Review / Approval

Completed prior to the start of work.

Supervisor Approval:  
(Pre-Start Approval)

Printed Name/Date:

Competant Person Review:

Printed Name/Date:

**TABLE I: SPECIFIED EXPOSURE CONTROL METHODS  
WHEN WORKING WITH MATERIALS CONTAINING CRYSTALLINE SILICA**

Equipment or Task	Engineering and Work Practice Control Methods	Respiratory Protection	
		≤ 4 hour shift	> 4 hour shift
(i) Stationary masonry saws	<ul style="list-style-type: none"> <li>Use saw equipped with integrated water delivery system that continuously feeds water to the blade.</li> <li>Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.</li> </ul>	None	None
(ii) Handheld power saws (any blade diameter)	<ul style="list-style-type: none"> <li>Use saw equipped with integrated water delivery system that continuously feeds water to the blade.</li> <li>Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions. <ul style="list-style-type: none"> <li>When used outdoors.</li> <li>When used indoors or in an enclosed area.</li> </ul> </li> </ul>	None APF 10	APF 10 APF 10
(iii) Handheld power saws for cutting fiber-cement board (with blade diameter of 8 inches or less)	<p>For tasks performed outdoors only:</p> <ul style="list-style-type: none"> <li>Use saw equipped with commercially available dust collection system.</li> <li>Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.</li> <li>Dust collector must provide the air flow recommended by the tool manufacturer, or greater, and have a filter with 99% or greater efficiency.</li> </ul>	None	None
(iv) Walk Behind Saws	<ul style="list-style-type: none"> <li>Use saw equipped with integrated water delivery system that continuously feeds water to the blade.</li> <li>Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions. <ul style="list-style-type: none"> <li>When used outdoors.</li> <li>When used indoors or in an enclosed area.</li> </ul> </li> </ul>	None APF 10	None APF 10
(v) Drivable saws	<p>For tasks performed outdoors only:</p> <ul style="list-style-type: none"> <li>Use saw equipped with integrated water delivery system that continuously feeds water to the blade.</li> <li>Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.</li> </ul>	None	None
(vi) Rig-mounted core saws or drills	<ul style="list-style-type: none"> <li>Use tool equipped with integrated water delivery system that supplies water to cutting surface.</li> <li>Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.</li> </ul>	None	None
(vii) Handheld and stand-mounted drills (including impact and rotary hammer drills)	<ul style="list-style-type: none"> <li>Use drill equipped with commercially available shroud or cowling with dust collection system.</li> <li>Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.</li> <li>Dust collector must provide the air flow recommended by the tool manufacturer, or greater, and have a filter with 99% or greater efficiency and a filter-cleaning mechanism.</li> <li>Use a HEPA-filtered vacuum when cleaning holes.</li> </ul>	None	None
(viii) Dowel drilling rigs for concrete	<p>For tasks performed outdoors only:</p> <ul style="list-style-type: none"> <li>Use shroud around drill bit with a dust collection system. Dust collector must have a filter with 99% or greater efficiency and a filter-cleaning mechanism.</li> <li>Use a HEPA-filtered vacuum when cleaning holes.</li> </ul>	APF 10	APF 10
(ix) Vehicle-mounted drilling rigs for rock and concrete	<ul style="list-style-type: none"> <li>Use dust collection system with close capture hood or shroud around drill bit with a low-flow water spray to wet the dust at the discharge point from the dust collector.</li> </ul>	None	None
	<p>OR</p> <ul style="list-style-type: none"> <li>Operate from within an enclosed cab and use water for dust suppression on drill bit.</li> </ul>	None	None
(x) Jackhammers and handheld powered chipping tools	<ul style="list-style-type: none"> <li>Use tool with water delivery system that supplies a continuous stream or spray of water at the point of impact. <ul style="list-style-type: none"> <li>When used outdoors.</li> <li>When used indoors or in an enclosed area.</li> </ul> </li> </ul>	None APF 10	APF 10 APF 10
	<p>OR</p> <ul style="list-style-type: none"> <li>Use tool equipped with commercially available shroud and dust collection system.</li> <li>Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.</li> <li>Dust collector must provide the air flow recommended by the tool manufacturer, or greater, and have a filter with 99% or greater efficiency and a filter-cleaning mechanism. <ul style="list-style-type: none"> <li>When used outdoors.</li> <li>When used indoors or in an enclosed area.</li> </ul> </li> </ul>	None APF 10	APF 10 APF 10
(xi) Handheld grinders for mortar removal (i.e., tuckpointing)	<ul style="list-style-type: none"> <li>Use grinder equipped with commercially available shroud and dust collection system.</li> <li>Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.</li> <li>Dust collector must provide 25 cubic feet per minute (cfm) or greater of airflow per inch of wheel diameter and have a filter with 99% or greater efficiency and a cyclonic pre-separator or filter-cleaning mechanism.</li> </ul>	APF 10	APF 25

Equipment or Task	Engineering and Work Practice Control Methods	Respiratory Protection	
		≤ 4 hour shift	> 4 hour shift
(xii) Handheld grinders for uses other than mortar removal	<p>For tasks performed outdoors only:</p> <ul style="list-style-type: none"> <li>• Use grinder equipped with integrated water delivery system that continuously feeds water to the grinding surface.</li> <li>• Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Use grinder equipped with commercially available shroud and dust collection system.</li> <li>• Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.</li> <li>• Dust collector must provide 25 cubic feet per minute (cfm) or greater of airflow per inch of wheel diameter and have a filter with 99% or greater efficiency and a cyclonic pre-separator or filter-cleaning mechanism. <ul style="list-style-type: none"> <li>– When used outdoors.</li> <li>– When used indoors or in an enclosed area.</li> </ul> </li> </ul>	None	None
(xiii) Walk-behind milling machines and floor grinders	<ul style="list-style-type: none"> <li>• Use machine equipped with integrated water delivery system that continuously feeds water to the cutting surface.</li> <li>• Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Use machine equipped with dust collection system recommended by the manufacturer.</li> <li>• Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.</li> <li>• Dust collector must provide the air flow recommended by the manufacturer, or greater, and have a filter with 99% or greater efficiency and a filter-cleaning mechanism.</li> <li>• When used indoors or in an enclosed area, use a HEPA-filtered vacuum to remove loose dust in between passes.</li> </ul>	None	None
(xiv) Small drivable milling machines (less than half lane)	<ul style="list-style-type: none"> <li>• Use a machine equipped with supplemental water sprays designed to suppress dust. Water must be combined with a surfactant.</li> <li>• Operate and maintain machine to minimize dust emissions.</li> </ul>	None	None
(xv) Large drivable milling machines (half lane or larger)	<p>For cuts of any depth on asphalt only:</p> <ul style="list-style-type: none"> <li>• Use machine equipped with exhaust ventilation on drum enclosure and supplemental water sprays designed to suppress dust.</li> <li>• Operate and maintain machine to minimize dust emissions.</li> </ul> <p>For cuts of four inches in depth or less on any substrate:</p> <ul style="list-style-type: none"> <li>• Use machine equipped with exhaust ventilation on drum enclosure and supplemental water sprays designed to suppress dust.</li> <li>• Operate and maintain machine to minimize dust emissions.</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Use a machine equipped with supplemental water spray designed to suppress dust. Water must be combined with a surfactant.</li> <li>• Operate and maintain machine to minimize dust emissions.</li> </ul>	None	None
(xvi) Crushing machines	<ul style="list-style-type: none"> <li>• Use equipment designed to deliver water spray or mist for dust suppression at crusher and other points where dust is generated (e.g., hoppers, conveyers, sieves/sizing or vibrating components, and discharge points).</li> <li>• Operate and maintain machine in accordance with manufacturer's instructions to minimize dust emissions.</li> <li>• Use a ventilated booth that provides fresh, climate-controlled air to the operator, or a remote control station.</li> </ul>	None	None
(xvii) Heavy equipment and utility vehicles used to abrade or fracture silica-containing materials (e.g., hoe ramming, rock ripping) or used during demolition activities involving silica-containing materials	<ul style="list-style-type: none"> <li>• Operate equipment from within an enclosed cab.</li> <li>• When employees outside of the cab are engaged in the task, apply water and/or dust suppressants as necessary to minimize dust emissions.</li> </ul>	None	None
(xviii) Heavy equipment and utility vehicles for tasks such as grading and excavating but not including demolishing, abrading, or fracturing silica-containing materials.	<ul style="list-style-type: none"> <li>• Apply water and/or dust suppressants as necessary to minimize dust emissions.</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• When the equipment operator is the only employee engaged in the task, operate equipment from within an enclosed cab.</li> </ul>	None	None