Table 1 Specified Exposure Control Methods When Working With Materials			
Containing Crystalline Silica			
	Engineering and Work Practice	Required Respiratory Protection and Minimum Assigned Protection Factor (APF)	
Equipment/ Task	Control Methods	≤ 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.	None	None
	Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.		
(ii) Hand-held 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
(iii) Hand-held power saws for cutting fiber-	For tasks performed outdoors only:		
cement board (with blade diameter of 8 inches or less)	Use saw equipped with commercially available dust collection system.	None	None
	Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.		
	Dust collector must provide the air flow recommended by the tool manufacturer, or greater, and have a filter with 99% or greater efficiency.		
(iv) Walk-behind saws	Use saw equipped with integrated water delivery system that continuously feeds water to the blade.		

Table 1 Specified Exposure Control Methods When Working With Materials			
Containing Crystalline Silica			
Equipment/ Task	Engineering and Work Practice Control Methods Required Respiratory Protection and Minimum Assigned Protection Factor (APF ≤ 4 hours/shift > 4 hours/shift		
Equipment rask	Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.	2 4 Hours/shift	> 4 Hours/stillt
	When used outdoors.When used indoors or in an enclosed area.	None APF 10	None APF 10
(v) Drivable saws	For tasks performed outdoors only:		
	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
(vi) Rig-mounted core saws or drills	Use tool equipped with integrated water delivery system that supplies water to cutting surface. Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.	None	None
(vii) Hand-held and stand-mounted drills (including impact and rotary hammer drills)	Use drill equipped with commercially available shroud or cowling with dust collection system. Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.	None	None

Table 1 Specified Exposure Control Methods When Working With Materials			
Containing Crystalline Silica			
	Engineering and Work Practice	Required Respiratory Protection and Minimum Assigned Protection Factor (APF)	
Equipment/ Task	Control Methods	≤ 4 hours/shift	> 4 hours/shift
	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. Use a HEPA-filtered vacuum when cleaning holes.		
(viii) Dowel drilling rigs for concrete	For tasks performed outdoors only:		
	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. Use a HEPA-filtered vacuum when cleaning holes.	APF 10	APF 10
(ix) Vehicle-mounted drilling rigs for rock and concrete	Use dust collection system with close capture hood or shroud around drill bit with a low-flow water spray or wet the dust at the discharge point from the dust collector. OR Operate from within an enclosed cab and use	None	None
	water for dust suppression on drill bit.		
(x) Jackhammers and hand-held powered chipping tools	Use tool with water delivery system that supplies a continuous stream or spray of water at the point of impact.		
	 When used outdoors. When used indoors or in an enclosed area. OR 	None APF 10	APF 10 APF 10

Table 1 Specified Exposure Control Methods When Working With Materials Containing Crystalline Silica			
Engineering and Work Practice		Required Respiratory Protection and Minimum Assigned Protection Factor (APF)	
Equipment/ Task	Control Methods	≤ 4 hours/shift	> 4 hours/shift
	Use tool equipped with commercially available shroud and dust collection system.		
	Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.		
	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.		
	When used outdoors.When used indoors or in an enclosed area.	None APF 10	APF 10 APF 10
(xi) Hand-held grinders for mortar removal (i.e., tuckpointing)	Use grinder equipped with commercially available shroud and dust collection system.	APF 10	APF 25
	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 cyclonic preseparator or filtercleaning mechanism.		
(xii) Hand-held grinders for uses other than	For tasks performed outdoors only:		
mortar removal	Use grinder equipped with integrated water delivery system that continuously feeds water to the grinding surface.	None	None
	Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions. OR		

Table 1 Specified Exposure Control Methods When Working With Materials			
Containing Crystalline Silica			
	Engineering and Work Practice	Required Respiratory Protection and Minimum Assigned Protection Factor (APF)	
Equipment/ Task	Control Methods	≤ 4 hours/shift	> 4 hours/shift
	Use grinder equipped with commercially available shroud and dust collection system.		
	Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.		
	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 preseparator or filter-cleaning mechanism.		
	When used outdoors.When used indoors or in an enclosed area.	None None	None APF 10
(xiii) Walk-behind milling machines and floor grinders	Use machine equipped with integrated water delivery system that continuously feeds water to the cutting surface.	None	None
	Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions. OR Use machine equipped with dust collection system recommended by the manufacturer.	None	None
	Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.		

Table 1 Specified Exposure Control Methods When Working With Materials Containing Crystalline Silica				
	Engineering and Work Practice	Required Respiratory Protection and Minimum Assigned Protection Factor (APF)		
Equipment/ Task	Control Methods	≤ 4 hours/shift	> 4 hours/shift	
	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.			
	When used indoors or in an enclosed area, use a HEPA-filtered vacuum to remove loose dust in between passes.			
(xiv) Small drivable milling machines (less than half-lane)	Use machine equipped with supplemental water sprays designed to suppress dust. Water must be combined with a surfactant. Operate and maintain machine to minimize	None	None	
(m) Lawre drivele	dust emissions.			
(xv) Large drivable milling machines (half-	For cuts of any depth on asphalt only:			
lane and larger) `	Use machine equipped with exhaust ventilation on drum enclosure and supplemental water sprays designed to suppress dust.	None	None	
	Operate and maintain machine to minimize dust emissions.			
	For cuts of four inches in depth or less on any substrate:	None	None	
	Use machine equipped with exhaust ventilation on drum enclosure and supplemental water sprays designed to suppress dust.			

Table 1 Specified Exposure Control Methods When Working With Materials Containing Crystalline Silica			
	Engineering and Work Practice	Required Respiratory Protection and Minimum Assigned Protection Factor (APF)	
Equipment/ Task	Control Methods Operate and maintain machine to minimize dust emissions. OR Use a machine equipped with supplemental water spray designed to suppress dust. Water must be combined with a surfactant.	≤ 4 hours/shift	> 4 hours/shift
	Operate and maintain machine to minimize dust emissions.		
(xvi) Crushing machines	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). Operate and maintain machine in accordance with manufacturer's instructions to minimize dust emissions. Use a ventilated booth that provides fresh,	None	None
(-:"\	climate-controlled air to the operator, or a remote control station.	Nava	News
(xvii) Heavy equipment and utility vehicles used to abrade or fracture silicacontaining materials (e.g., hoe-ramming, rock ripping) or used during demolition activities involving silica-containing materials	Operate equipment from within an enclosed cab. When employees outside of the cab are engaged in the task, apply water and/or dust suppressants as necessary to minimize dust emissions.	None	None

Table 1 Specified Exposure Control Methods When Working With Materials Containing				
Crystalline Silica				
Equipment/ Task	Engineering and Work Practice Control Methods	Required Respiratory F Assigned Protec	Protection and Minimum tion Factor (APF)	
(xviii) Heavy equipment and utility vehicles for tasks such as grading and excavating but not including: Demolishing, abrading or fracturing silica-containing materials	Apply water and/or dust suppressants as necessary to minimize dust emissions. OR When the equipment operator is the only employee engaged in the task, operate equipment from within an enclosed cab.	None	None	

Statutory Authority: Chapter RCW 49.17.010, .040, .050, and .060. 18-07-098 (Order 16-20), § 296-840-110, filed 03/20/2018, effective 04/23/2018.]

WAC 296-840-115 Regulated areas.

This section does not apply to occupational respirable crystalline silica exposures in construction work.

- (1) **Establishment**. You must establish a regulated area wherever an employee's exposure to airborne concentrations of respirable crystalline silica is, or can reasonably be expected to be, in excess of the PEL.
- (2) **Demarcation**. You must demarcate the regulated areas from the rest of the workplace in a manner that minimizes the number of employees exposed to respirable crystalline silica within the regulated area.
- (3) You must post signs at all entrances to regulated areas that bear the legend specified in WAC 296-840-150(2).
- (4) **Access**. You must limit access to regulated areas to:
 - (a) Persons authorized by the employer and required by work duties to be present in the regulated area;
 - (b) Any person entering such an area as a designated representative of employees for the purpose of exercising the right to observe monitoring procedures under WAC 296-840-105; and
 - (c) Any person authorized by the department or regulations issued under it to be in a regulated area.
- (5) **Provision of respirators.** You must provide each employee and the employee's designated representative entering a regulated area with an appropriate respirator in accordance with WAC 296-840-125 and must require each employee and the employee's designated representative to use the respirator while in a regulated area.

[Statutory Authority: Chapter RCW 49.17.010, .040, .050, and .060. 18-07-098 (Order 16-20), § 296-840-115, filed 03/20/2018, effective 04/23/2018.]