### Table 1 – Equipment Names and Best Practice Tips

- Includes equipment terms commonly used by different trades and geographic areas
- 'Best practice' tips are intended to help employers and their employees operate the equipment-control options effectively and are based on 1) OSHA's Small Entity Compliance Guide for the Respirable Crystalline Silica Standard for Construction; 2) manufacturer specifications; and/or 3) craft worker/contractor input based on experience in the field.

<b>Equipment/ Control</b>	Photo	Names	Best Practice Tips
(i) Stationary masonry saws CONTROL: water	Photo courtesy of the International Masonry Institute & OSHA	Table saw  Brick/block saw	OSHA¹ requires the employer to ensure that:  The saw is equipped with an integrated water delivery system (commercially developed specifically for the type of tool in use)  An adequate supply of water for dust suppression  The spray nozzle is working properly to apply water at the point of dust generation  The spray nozzle is not clogged or damaged  All hoses and connections are intact  Water is applied at least at the flow rate specified by the manufacturer  Additional exhaust is provided as needed to minimize the accumulation of visible airborne dust when operating indoors or in an enclosed space (area where airborne dust can build up)
			Other tips:  Visually inspect the water attachment to ensure it is properly connected to the water source and the tool  Inspect the blade for cracks, loose segments, or other damage  Check the hose or water tubes and the water flow rate regularly to ensure it is sufficient to control the dust generated so that no visible dust <sup>2</sup> is emitted from the process once the blade has entered the substrate (material) being cut  If recycling water, check regularly to make sure the water is circulating and change water to avoid silt build-up in water  Prevent wet slurry from accumulating and drying



<b>Equipment/ Control</b>	Photo	Names	Best Practice Tips
(ii) Handheld power		Chop saw	OSHA <sup>1</sup> requires the employer to ensure that:
saws (any blade			An adequate supply of water for dust suppression is used
diameter)		Cut-off saw	<ul> <li>The spray nozzle is working properly to apply water at the point of dust generation</li> </ul>
CONTROL: water + respirators <sup>3</sup>		Wet saw	The spray nozzle is not clogged or damaged
(APF 10 outdoors		Partner saw	All hoses and connections are intact
more than 4 hours		Turiner saw	<ul> <li>Water is applied at least at the flow rate specified by the manufacturer</li> </ul>
or all times indoors)			Additional exhaust is provided as needed to minimize the
	Photo courtesy of the International Masonry Institute & OSHA		accumulation of visible airborne dust when operating indoors or in an enclosed space (area where airborne dust can build up)
			Other tips:
			Visually inspect water attachment to ensure it is properly connected to the water source and the tool
			Inspect the blade for cracks, loose segments, or other damage
			Check the hose and the water flow rate regularly to ensure it is
			sufficient to control the dust generated so that no visible dust <sup>2</sup> is emitted from the process once the blade has entered the substrate (material) being cut
			Prevent wet slurry from accumulating and drying
			<ul> <li>Adjust nozzles so that water goes to the cutting area but still cools the blade</li> </ul>



<b>Equipment/ Control</b>	Photo	Names	Best Practice Tips
(iii) Handheld		Worm drive	OSHA <sup>1</sup> requires the employer to ensure that:
power saws for			The shroud or cowling is intact and installed in accordance with the
cutting fiber-		Circular saw	manufacturer's instructions
cement board (with			The hose connecting the tool to the vacuum is intact and without
blade diameter of 8		Cement saw	kinks or tight bends
inches or less)			The filter(s) on the vacuum are cleaned or changed in accordance
CONTROL	60		with the manufacturer's instructions to prevent clogging
CONTROL:			The dust collection bags are emptied to avoid overfilling
ventilation (local exhaust ventilation or LEV)	shop-vao		The air flow rate is equal to or greater than recommended by the manufacturer
OI LEV)			Other tips:
	Photo courtesy of NIOSH		<ul><li>When working indoors, provide sufficient ventilation to prevent</li></ul>
			build-up of visible airborne dust
			Visually inspect the blade, hood (shroud or cowl), and the shop
			vacuum system for missing or damaged parts
			Check the hood (shroud or cowl) and dust collection system
			regularly to ensure the system is operating so that no visible dust <sup>2</sup> is emitted from the process once the blade has entered the substrate (material)
			• The hose should be of sufficient size (≤1.25-inch inner diameter) to allow adequate airflow for the dust capture and transport, only be
			as long as necessary, and be kept as straight as possible  Visually inspect the blade, hood (shroud or cowl) and shop vacuum
			system to ensure they are properly connected
			A high efficiency disposable filter bag can be used as a prefilter in
			the shop vacuum to capture most of the dust to prolong the life of the filter cartridge
			Plug the shop vacuum or saw into intelligent vacuum switches or
			use a shop vacuums with a built-in intelligent vacuum switch
			Regularly clean the saw, check and replace the filter, and empty the
			dust collection unit to prevent clogging and overheating
			Do not use compressed air to clean the equipment, filters, work
			clothing, or work environment compressed air can damage the filter



Equipment/ Control Photo Na	ames	Best Practice Tips
(iv) Walk-behind saws	ames oncrete saw loor saw	OSHA¹ requires the employer to ensure that:  • An adequate supply of water for dust suppression is used  • The spray nozzle is working properly to apply water at the point of dust generation  • The spray nozzle is not clogged or damaged  • All hoses and connections are intact  • Water is applied at the flow rate specified by the manufacturer or greater  • Additional exhaust is provided as needed to minimize the accumulation of visible airborne dust when operating indoors or in an enclosed space (area where airborne dust can build up)  Other tips:  • Visually inspect the water attachment to ensure it is properly connected to the water source and the tool  • Inspect the blade and shroud for cracks, loose segments, or other damage  • Check the water nozzles and the water flow rate regularly to ensure it is sufficient to control the dust generated so that no visible dust² is emitted from the process once the blade has entered the substrate (material) being cut  • Prevent wet slurry from accumulating and drying



of dust generation  The spray nozzles are not clogged or damaged  All hoses and connections are intact  Water is applied at the flow rate specified by the manufacturer or greater  Additional exhaust is provided as needed to minimize the accumulation of visible airborne dust when operating indoors or in an enclosed space (area where airborne dust can build up)  Other tips:  Visually inspect the water attachment to ensure it is properly connected to the water source and the tool  Inspect the blade and shroud for cracks, loose segments, or other damage  Check the water nozzles and the water flow rate regularly to ensure	<b>Equipment/ Control</b>	Photo	Names	Best Practice Tips
	(v) Drivable saws  CONTROL:	Photo courtesy of Diamond Products		OSHA¹ requires the employer to ensure that:  An adequate supply of water for dust suppression is used The spray nozzles produce a pattern that applies water at the point of dust generation The spray nozzles are not clogged or damaged All hoses and connections are intact Water is applied at the flow rate specified by the manufacturer or greater Additional exhaust is provided as needed to minimize the accumulation of visible airborne dust when operating indoors or in an enclosed space (area where airborne dust can build up)  Other tips: Visually inspect the water attachment to ensure it is properly connected to the water source and the tool Inspect the blade and shroud for cracks, loose segments, or other damage Check the water nozzles and the water flow rate regularly to ensure it is sufficient to control the dust generated so that no visible dust² is emitted from the process once the blade has entered the substrate (material) being cut
				Other tips:  Visually inspect the water attachment to ensure it is properly connected to the water source and the tool Inspect the blade and shroud for cracks, loose segments, or other damage Check the water nozzles and the water flow rate regularly to ensurit is sufficient to control the dust generated so that no visible dust is emitted from the process once the blade has entered the substrate (material) being cut



Photo	Names	Best Practice Tips
	Core drilling	OSHA <sup>1</sup> requires the employer to ensure that:
Photo courtesy of Hilti, Inc. Copyright 2017	machine/ equipment	<ul> <li>The saw or drill is equipped with an integrated water delivery system (commercially developed specifically for the type of tool in use)</li> <li>The equipment is operated in accordance with manufacturer's instructions to minimize dust emissions.</li> <li>An adequate supply of water for dust suppression is used</li> <li>The spray nozzles produce a pattern that applies water at the point of dust generation</li> <li>The spray nozzle is not clogged or damaged</li> <li>All hoses and connections are intact</li> <li>Additional exhaust is provided as needed to minimize the accumulation of visible airborne dust when operating indoors or in an enclosed space (area where airborne dust can build up)</li> </ul>
		Other tips:  Visually inspect the water attachment to ensure it is properly connected to the water source and the tool  Inspect the drill for cracks, loose segments, or other damage  Water is at the flow rate specified by the manufacturer or greater  Check the hose or water tubes and the water flow rate regularly to ensure it is sufficient to control the dust generated so that no visible dust <sup>2</sup> is emitted from the process once the blade has entered the substrate (material) being cut  If recycling water, check regularly to make sure the water is circulating and change water to avoid silt build-up  Prevent wet slurry from accumulating and drying
		Core drilling machine/ equipment



# Equipment/ Control (vii) Handheld and stand-mounted drills (including impact and rotary

hammer drills)

CONTROL: ventilation (local exhaust ventilation or LEV)





(Handheld)
Photo courtesy of the International
Masonry Institute & OSHA



(Stand-mounted)
Photo courtesy of David Rempel

### **Best Practice Tips**

Hammer drill

Rotohammer

Names

**Roto-hammer** 

OSHA<sup>1</sup> requires the employer to ensure that:

- The equipment is equipped with a commercially available shroud or cowling with a dust collection system that provides at least the minimum air flow required by the manufacturer
- The shroud or cowling is intact and installed in accordance with the manufacturer's instructions
- The hose connecting the tool to the vacuum is intact and without kinks or tight bends
- The filter(s) on the vacuum are cleaned or changed in accordance with the manufacturer's instructions
- The dust collection bags are emptied to avoid overfilling
- A HEPA-filtered vacuum is used when cleaning holes; compressed air can be used in conjunction with a HEPA-filtered vacuum or hole cleaning kit designed for use with compressed air
- Additional exhaust is provided as needed to minimize the accumulation of visible airborne dust when operating indoors or in an enclosed space (area where airborne dust can build up)

### Other tips:

- Check the air flow rate to ensure it is equal to or greater than recommended by the manufacturer
- Visually inspect the drill, hood (shroud or cowl) and the dust collection system to ensure they are properly connected
- Visually inspect the drill, hood (shroud or cowl) and the dust collection system for missing or damaged parts
- Check the drill, hood (shroud or cowl), and dust collection system regularly to ensure the system is operating so that no visible dust<sup>2</sup> is emitted from the process once the drill has entered the substrate (material)
- Check and replace the filter and empty the dust collection unit, and use filters and collection bags for collecting silica dust
- If applicable, regularly check the automatic filter cleaning system to ensure it is operating properly to maintain maximum air flow and suction power and can be used in conjunction with the HEPA filter



SHA <sup>1</sup> requires the employer to ensure that:  The shroud or cowling is intact and installed in accordance with the manufacturer's instructions  The hose connecting the tool to the vacuum is intact and without kinks or tight bends  The filter(s) on the vacuum are cleaned or changed in accordance with the manufacturer's instructions
The dust collection bags are emptied to avoid overfilling The equipment is equipped with a shroud around the drill bit and a dust collection system that has a filter with 99% or greater efficiency The dust collection equipment has a filter cleaning mechanism A HEPA-filtered vacuum is used when cleaning holes; compressed air can be used in conjunction with a HEPA-filtered vacuum or hole cleaning kit designed for use with compressed air  Where tips: Visually inspect the tool, hood, and the dust collection system to ensure they are properly connected, and there are no missing or damaged parts Check the tool, hood, and dust collection system regularly to ensure the system is operating so that no visible dust <sup>2</sup> is emitted from the process once the drill has entered the substrate (material) Use smooth ducts and maintain duct transport velocity at 3,500 to 4,000 feet per minute [ACGIH 2010] Provide duct clean-out points Install pressure gauges across dust collection filters so the drill operator knows when to clean or change the filter



Equipment/ Control	Photo	Names	Best Practice Tips
(ix) Vehicle- mounted drilling rigs for rock and concrete  CONTROL: ventilation (local exhaust ventilation or LEV) + water  OR enclosed cab + water	Photo courtesy of NIOSH	Names	OSHA¹ requires the employer to implement dust collection systems and water controls that ensure that:  The shroud or cowling is intact and installed in accordance with the manufacturer's instructions  The hose connecting the tool to the vacuum is intact and without kinks or tight bends  The filter(s) on the vacuum are cleaned or changed in accordance with the manufacturer's instructions  The dust collection bags are emptied to avoid overfilling  An adequate supply of water for dust suppression is used  The spray nozzles are working properly and produce a pattern that applies water on the discharge point from the dust collector  The spray nozzles are not clogged or damaged  All hoses and connections are intact  OR  Enclosed cab is:  Maintained as free as practicable from dust  Has gaskets and seals that are in good condition and work properly  Is under positive pressure maintained through continuous delivery of filtered air  Has intake air that is filtered through a pre-filter that is 95% efficient in the 0.3-100 µm range (e.g., MERV-16 or better)  Has heating and cooling capabilities  An adequate supply of water for dust suppression is used  The spray nozzles are working properly and produce a pattern that applies water on the discharge point from the dust collector  The spray nozzles are not clogged or damaged  All hoses and connections are intact



<b>Equipment/ Control</b>	Photo	Names	Best Practice Tips
Equipment/ Control  (x) Jackhammers and handheld powered chipping tools  CONTROL: Water + respirators³ (APF 10 outdoors more than 4 hours; indoors all times)  OR  Ventilation+ respirators³ (Go to page 11 for details)	(water) Photos courtesy of the International Masonry Institute & OSHA	Chipping hammer Chipping gun Chisel gun	<ul> <li>OSHA¹ requires, for water controls, the employer to ensure that:</li> <li>A continuous stream or spray of water is delivered at the point of impact through direct connections to fixed water lines or portable water tank systems; one or two workers can operate the water delivery system</li> <li>An adequate supply of water for dust suppression is used</li> <li>The water sprays are working properly and produce a pattern that applies water at the point of dust generation</li> <li>The spray nozzles are not clogged or damaged</li> <li>All hoses and connections are intact</li> <li>Additional exhaust is provided as needed to minimize the accumulation of visible airborne dust when operating indoors or in an enclosed space (area where airborne dust can build up)</li> <li>Other tips:</li> <li>Check the hose or spray nozzle regularly to ensure the flow rate is sufficient to control the dust generated so that no visible dust² is emitted from the process once the breaker/drill has entered the substrate (material)</li> <li>Prevent wet slurry from accumulating and drying.</li> </ul>



<b>Equipment/ Control</b>	Photo	Names	Best Practice Tips
(x) Jackhammers and handheld powered chipping tools  CONTROL: Water + respirators³ (Go to page 10 for details)  OR  Ventilation+ respirators³ (APF 10) (APF 10 outdoors more than 4 hours; indoors all times)	(vacuum) Photos courtesy of the International Masonry Institute & OSHA	Chipping hammer Chipping gun Chisel gun	OSHA¹ requires, for dust collection controls, the employer to ensure that:  The system provides at least the air flow recommended by the manufacturer, a filter with 99% or greater efficiency, and a filter cleaning mechanism  The shroud or cowling is intact and installed in accordance with the manufacturer's instructions  The hose connecting the tool to the vacuum is intact and without kinks or tight bends  The filter(s) on the vacuum are cleaned or changed in accordance with the manufacturer's instructions  The dust collection bags are emptied to avoid overfilling  Additional exhaust is provided as needed to minimize the accumulation of visible airborne dust when operating indoors or in an enclosed space (area where airborne dust can build up)  Other tips:  Visually inspect the jackhammer/ impact driller, shroud (cowl or hood), and dust collection system to ensure they are properly connected  Visually inspect the jackhammer/ impact driller, shroud (cowl or hood), and dust collection system for missing or damaged parts



## Equipment/ Control (xi) Handheld

grinders for mortar removal (i.e. tuckpointing)

CONTROL: ventilation (local exhaust ventilation or LEV) + respirators<sup>3</sup> (APF 10 4 hours or less; APF 25 4 hours or more)

### Photo



Photo courtesy of the International Masonry Institute & OSHA

### Best Practice Tips

Names

grinder

Grinder

**Tuckpointing** 

Angle grinder

OSHA<sup>1</sup> requires the employer to ensure that:

- The system provides at least 25 CFM of air flow per inch of wheel diameter, a filter with 99% efficiency or greater, and either a cyclonic pre-separator or a filter-cleaning mechanism
- The shroud or cowling is intact, encloses most of the grinding blade, and is installed in accordance with the manufacturer's instructions
- The hose connecting the tool to the vacuum is intact and without kinks or tight bends
- The filter(s) on the vacuum are cleaned or changed in accordance with the manufacturer's instructions
- The dust collection bags are emptied to avoid overfilling
- The blade is kept flush against the surface whenever possible
- The tool is operated against the direction of blade rotation whenever practical
- Additional exhaust is provided as needed to minimize the accumulation of visible airborne dust when operating indoors or in an enclosed space (area where airborne dust can build up)

#### Other tips:

- Visually inspect the grinder, shroud (cowl or hood), and dust collection system to ensure they are properly connected, there are no missing or damaged parts, and the system is operating so that no visible dust<sup>2</sup> is emitted from the process once the grinder is flush against the work surface
- If applicable, regularly check the automatic filter cleaning system to ensure it is operating properly to maintain maximum air flow and suction power
- Place one side of the shroud against the working surface before inserting the blade into the mortar joint this directs the dust into the shroud as the blade cuts into the mortar joint
- Do not move the grinder back and forth along the slot as this will create a gap that increase dust escape -- for better results, move the grinder in one direction, making a second pass only if necessary
- Back off the cutting pressure of the blade a short distance before removing it from the slot so the vacuum can have enough time to clear any dust buildup; use only enough cutting force to operate the tool effectively and keep the leading tool edge flush against the working surface



<b>Equipment/ Control</b>	Photo	Names	Best Practice Tips
(xii) Handheld		Surface Grinder	OSHA <sup>1</sup> requires, for water controls, the employer to ensure that:
grinders for uses other than mortar removal		Sander Polisher	<ul> <li>An integrated water system is provided that continuously feeds water to the grinding surface</li> <li>An adequate supply of water for dust suppression is used</li> <li>The spray nozzle is working properly and produce a pattern that applies water at the point of dust generation</li> </ul>
water			The spray nozzle is not clogged or damaged
	P		All hoses and connections are intact
OR			Additional exhaust is provided as needed to minimize the accumulation of visible airborne dust when operating indoors or in
ventilation (local	(water)		an enclosed space (area where airborne dust can build up)
exhaust ventilation	Photos courtesy of the International		
or LEV) +	Masonry Institute & OSHA		Other tips:
respirators <sup>3</sup>			Visually inspect the water attachment to ensure it is properly
(used indoors longer than 4 hours –			connected to the water source and the tool, and for missing or damaged parts
APF10)			<ul><li>Check the hose and water flow rate regularly to ensure it is</li></ul>
(Go to page 14 for details)			sufficient to control the dust generated so that no visible dust <sup>2</sup> is emitted from the process once the grinder is flush with the cutting/work surface
			Prevent wet slurry from accumulating and drying
			Use the smallest wheel and least aggressive tool necessary to complete task
			<ul> <li>Use a static pressure gauge, where available, to monitor performance</li> </ul>



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<b>Equipment/ Control</b>	Photo	Names	Best Practice Tips
(xiii) Walk-behind	See photo with ventilation on		OSHA <sup>1</sup> requires, for water controls, the employer to ensure that:
milling machines	page 16		An integrated water system is provided that continuously feeds
and floor grinders			water to the cutting surface
			An adequate supply of water for dust suppression is used
CONTROL:			The spray nozzles are working properly and produce a pattern that
water			applies water at the point of dust generation
I			The spray nozzles are not clogged or damaged
OR			All hoses and connections are intact
			Additional exhaust is provided as needed to minimize the
ventilation			accumulation of visible airborne dust when operating indoors or in
(Go to page 16 for			an enclosed space (area where airborne dust can build up)
details)			
			Other tips:
			Check the hose or spray nozzle regularly to ensure the flow rate is
			sufficient to control the dust generated so that no visible dust <sup>2</sup> is
			emitted from the process once the breaker/drill has entered the
			substrate (material)
			Prevent wet slurry from accumulating and drying



<b>Equipment/ Control</b>	Photo	Names	Best Practice Tips
(xiii) Walk-behind milling machines and floor grinders  CONTROL: water  OR  ventilation	Photo courtesy of OSHA		OSHA¹ requires, for dust collection controls, the employer to ensure that:  • The system provides a filter with 99% efficiency or greater and a filter-cleaning mechanism  • The hose connecting the tool to the vacuum is intact and without kinks or tight bends  • The filter(s) on the vacuum are cleaned or changed in accordance with the manufacturer's instructions  • The dust collection bags are emptied to avoid overfilling  • Additional exhaust is provided as needed to minimize the accumulation of visible airborne dust when operating indoors or in an enclosed space (area where airborne dust can build up)  • Loose dust must be cleaned with a HEPA-filtered vacuum in between passes of the machine to prevent the loose dust from being re-suspended  Other tips:  • Visually inspect the milling machine, shroud (hood or cowl) and dust collection system to ensure they are properly connected  • Visually inspect the milling machine, shroud (hood or cowl) and dust collection system for missing or damaged part  • Check the milling machine, shroud (hood or cowl) and dust collection system regularly to ensure the system is operating so that no visible dust¹ is emitted from the process once the once the blade has entered the substrate being cut  • Use dust collector in accordance with manufacturer specifications including airflow rate



milling machines • S	A <sup>1</sup> requires the employer to ensure that:
CONTROL: water + surfactant  • A • T • A • A • A • A	Supplemental water sprays are designed to suppress dust Water used is combined with a surfactant An adequate supply of water for dust suppression is used The spray nozzles are working properly and produce a pattern that applies water at the point of dust generation The spray nozzles are not clogged or damaged All hoses and connections are intact Additional exhaust is provided as needed to minimize the accumulation of visible airborne dust when operating indoors or in an enclosed space (area where airborne dust can build up)



<b>Equipment/ Control</b>	Photo	Names	Best Practice Tips
Equipment/ Control (xv) Large drivable milling machines (half-lane and larger)  CONTROL: water + ventilation  OR  water + surfactant (≤ 4 inch cuts)	Photo courtesy of NAPA	Names	OSHA¹ requires, for cuts of any depth on asphalt only, the employer to ensure that:  • The machine is equipped with exhaust ventilation drum enclosure and supplemental water sprays designed to suppress dust  • The machine is operated and maintained to minimize dust  For cuts of 4 inches or less:  • The machine is equipped with exhaust ventilation on the drum enclosure and supplemental water spray is designed to suppress dust  OR  • The machine is equipped with a supplemental water spray  • Water used is combined with a surfactant  Other tips:  • See NAPA field guide at <a href="http://www.silica-safe.org/training-and-other-resources/manuals-and-guides/asset/Field-Guide-for-Controlling-Silica-Dust-Exposure-on-Asphalt-Pavement-Milling-Machines.pdf">http://www.silica-safe.org/training-and-other-resources/manuals-and-guides/asset/Field-Guide-for-Controlling-Silica-Dust-Exposure-on-Asphalt-Pavement-Milling-Machines.pdf</a> • Ensure the correct controls are being used for the depth of the asphalt cut
			•



<b>Equipment/ Control</b>	Photo	Names	Best Practice Tips
(xvi) Crushing machines  CONTROL: water + ventilated booth	Used by permission of Screen Machine Industries™		<ul> <li>OSHA¹ requires the employer to ensure that:         <ul> <li>A remote control station or ventilated booth that provides fresh, climate-controlled air operator, or a remote control station</li> <li>Enclosed cab or booth:</li></ul></li></ul>



Equipment/ Control   Photo	Names	Best Practice Tips
Equipment/ Control (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  CONTROL: enclosed cab OR Water + ventilation (if nearby workers outside cabs)	imall Entity Respirable	Best Practice Tips  OSHA¹ requires the employer to ensure that:  • Enclosed cab or booth:  ○ Is maintained as free as practicable from settled dust  ○ Has door seals and closing mechanism that work properly  ○ Has gaskets and seals that are in good condition and work properly  ○ Is under positive pressure maintained through continuous delivery of filtered air  ○ Has intake air that is filtered through a pre-filter that is 95% efficient in the 0.3-100 µm range (e.g., MERV-16 or better)  ○ Has heating and cooling capabilities  • When employees outside of the cab are engaged in the task, apply water and/or dust suppressants as necessary to minimize dust emissions



Photo	Names	Best Practice Tips
Photo courtesy of NIOSH		OSHA¹ requires the employer to ensure that:  • Apply water and/or dust suppressants as necessary to minimize dust emissions  • When the equipment operator is the only employee engaged in the task, operated equipment from within an enclosed cab or booth:  ○ Is maintained as free as practicable from settled dust  ○ Has door seals and closing mechanism that work properly  ○ Has gaskets and seals that are in good condition and work properly  ○ Is under positive pressure maintained through continuous delivery of filtered air  ○ Has intake air that is filtered through a pre-filter that is 95% efficient in the 0.3-100 μm range (e.g., MERV-16 or better)  ○ Has heating and cooling capabilities
	Photo courtesy of NIOSH	

<sup>&</sup>lt;sup>1</sup>Best practice requirements from OSHA's Small Entity Compliance Guide for the Respirable Crystalline Silica Standard for Construction

<sup>&</sup>lt;sup>3</sup>Respirator use is conditional on time spent using equipment and if task is done outdoors, indoors or in an enclosed area. See <u>Table 1</u> in the standard for specific requirements including the assigned protection factor (respiratory protection).



<sup>&</sup>lt;sup>2</sup>A small amount of visible dust may be present when the blade or tool initially enters the substrate and when it is being removed at the end of a task. However, if visible dust is present after the blade or tool has entered the work surface/substrate, this is a sign that the control is not working properly. The operation should be stopped and the equipment and/or workers' cutting technique checked and fixed.