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|-------------------|---|
| Title of Training | Engineering Controls for Silica Dust |
| Equipment Info. | DeWalt DWV012 HEPA Vacuum and Attachments |
| Material Needed | OPERATORS/EQUIPMENT MANUAL |

ENGINEERING CONTROLS FOR SILICA DUST

(DUST COLLECTION SYSTEM)

Brieser will ensure that each employee with respect to training can demonstrate knowledge and understanding of all aspects of our Silica Exposure Control Plan located in Section 45 of the Brieser SH&E Manual.

GENERAL

HEPA VACUUM

Users of these products should have **HEPA Vacuum Silica Training**, found under **Concrete Tools**. Follow training guidelines as well as manufacturer specific instructions for use, cleaning and disposal of collection bags, and cleaning and change out times of the HEPA filters.



TOOLS/ ATTACHMENTS

This system provides silica dust control through various attachments which will marry to electric and pneumatic drilling, chipping, breaking and grinding devices. Prior to use, the operator of the specific tool being used should refer to their training history and ensure that they have been trained on that piece of equipment before moving forward with the task assigned. Always read the owner's instruction manuals before use of each individual item.

Electric chipping/ bush hammer/ busting- There are several different sized adaptors that will marry the gun and the bit being used to the hose of the vacuum.



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| Instructor Name | | Date of Training | |
| Scan To: | Safety/Training/Equipment/Eng. Controls for Silica MM/DD/YYYY | | |
| Revision # 001 | | | Page 1 of 5 |

| | |
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Drilling- You can use the Large Hammer Extraction device which suctions to the surface and provides an area big enough to allow up to 2” bits and will extract the dust produced. Can be used vertically, horizontally and overhead.



There is also a telescoping attachment for smaller holes

Cordless- A self-contained system where one battery runs the drill and the attached Hepa vac. Remember the collection of dust here is limited due to the small storage area of the vacuum system.



Pneumatic- Available as well is an adaptor to fit on the end of a jackhammer that will marry the jackhammer to the vacuum. One fitting is adjustable to fit around different sized hammers and can be adjusted to move higher or lower to the surface being demolished.



Grinding- A dust shroud is available for 5” grinders.



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| Revision # 001 | | | Page 2 of 5 |

| | |
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Remember to read and follow the manufacturer's instructions before use. There is a reference chart available from DeWalt to help in the selection of the proper attachment and adaptors for the tool being used. Use the right attachments and adaptors to marry the tool being used to the vacuum. Hose connections are simple twist lock, make sure hoses are attached and locked onto fittings to insure complete dust control.



The Occupational Safety and Health Administration (OSHA) has issued a final rule to curb lung cancer, silicosis, chronic obstructive pulmonary disease and kidney disease in America's workers by limiting their exposure to respirable crystalline silica. This rule requires engineering controls to keep workers from breathing silica dust.



OSHA COMPLIANT DRILLING

| TOOL | ATTACHMENT / ADAPTOR | EXTRACTOR |
|---|---|--|
| SDS PLUS | | |
| ≤ 1-1/8" | | |
| CORDESS OPTIONS | | |
|  |  |  |
| 1-1/8" | | |
|  |  |  |
| SDS MAX | | |
|  |  |  |
| SPLINE | | |
|  |  |  |
| HEX | | |
|  |  |  |

OSHA COMPLIANT GRINDING

| TOOL | ATTACHMENT / ADAPTOR | EXTRACTOR |
|---|---|---|
| 5-8" TUCKPOINTING / CUTTING | | |
|  |  |  |
| 5" SURFACING | | |
|  |  |  |

Copyright © 2021 DeWalt. The following are examples of recommended use for each DeWalt power tool attachment for silica dust extraction. Use the correct attachment for the tool and the correct extraction system for the tool and the work application. For the full range of applications, see the DeWalt website. DeWalt is not responsible for the use of DeWalt products in any other way.

DeWalt is not responsible for the Occupational Safety and Health Administration's (OSHA) 29 CFR 1910.1017 silica dust rule. DeWalt is not responsible for the use of DeWalt products in any other way. DeWalt is not responsible for the use of DeWalt products in any other way. DeWalt is not responsible for the use of DeWalt products in any other way.

For the complete DeWalt Silica Dust Extraction System, visit www.dewalt.com/silica. DeWalt is not responsible for the use of DeWalt products in any other way. DeWalt is not responsible for the use of DeWalt products in any other way. DeWalt is not responsible for the use of DeWalt products in any other way.

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| Revision # 001 | | | Page 3 of 5 |

| | |
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HAZARDS TO BE AWARE OF

In addition to the possibility of silica exposure, the user should be aware of other hazards associated with each tool being used, e.g., electric shock hazard with electric tools, noise, and pinch points to name a few. Inspect all tools, chords, hoses, etc. before use. Use of proper PPE, GFCI's and all safe work practices will apply per each individual tool.

MAINTENANCE, STORING & INSPECTIONS

Before use, make sure all attachments, adaptors and hoses are in working condition and free from obstruction. Make sure connections create a good seal to prevent the escape of any silica during operation. Use the proper collection bag in the vacuum as not to damage or "overwork" the HEPA filters. Periodically throughout the task take time to check everything to keep from creating a buildup in the system in order to maintain the desired control of contaminating particles in the work area. If at any time any part of the system needs to be cleaned, or after the task has been completed, take the proper measures needed to prevent the release of any contaminating dust or particles into the area during cleanup. ***DO NOT USE COMPRESSED AIR!***

When not in use, store them in their proper containers to prevent damage before the next person uses them. Follow manufacturer recommendations for maintenance of each item.

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| Revision # 001 | | | Page 4 of 5 |

| | |
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| EMPLOYEE NAME (Print or Type) | EMPLOYEE SIGNATURE | TRADE | JOB TITLE |
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| Revision # 001 | | | Page 5 of 5 |