



# 7

## STEP PLAN FOR OSHA SAFE SILICA CONTROL

PRESENTED BY AN ICPI AND NCMA CERTIFIED  
INSTRUCTOR: JEREMY MARTIN



<https://www.dustkiller.tools/>



# MEET THE AUTHOR AND INVENTOR

## JEREMY MARTIN

ICPI AND NCMA CERTIFIED  
INSTRUCTOR

As soon as I had my driver's license, I started my first job as a landscaper. Within a few years, I had the opportunity to buy my employer's landscape division in 2005, and I never looked back! After hardscaping for 6 seasons, in 2012 I determined to take our skills to another level. I started taking every class I could, pushing myself and my crew to learn new design and installation techniques. I soon pursued instructor training for the various classes I'd taken years earlier. What you are getting in this Free Download is a result of hours of study and teaching on one of the most important topics in our industry. I hope you find it helpful!





# INTRODUCTION

## WHAT IS ALL THIS ABOUT?

- What is respirable crystalline silica?
- Why has OSHA created a new standard?
- Why should we be concerned about it?
- *Crystalline silica is a mineral found everywhere on construction sites... sand, concrete, brick, block, stone, mortar, and yes even dirt! Respirable crystalline silica is about 100 times smaller than the particles of sand found on beaches. It is generated by cutting, sawing, grinding, drilling, and crushing the above materials.*
- *The primary risk of inhaling respirable crystalline silica is silicosis. As silica enters the lungs, it causes scar tissue to form which limits oxygen absorption. There is no cure for silicosis! Exposure to respirable silica also increases the risk of lung cancer, other lung diseases, and kidney disease. Silicosis will continue to progress even after exposure is discontinued, as the particles remain in the lungs and continue damaging them.*
- *First and foremost, our worker's health and safety should be protected! Secondly, OSHA will fine us out of existence for non-compliance. The minimum fine is \$8,065 per person exposed to excessive silica; the record fine is \$304,000, more than enough to put most hardscape contractors out of business.*





# WHAT NEXT?

## READ THE OUTLINE OF THE 7 STEPS

Then over the next week+ we'll be sending you more details about each step. There is a lot to take in, so watch your inbox every day for a detailed overview of each step to compliance!

- *Your first email should already be in your inbox, so go check it now and start planning and learning!*
- *At the end, we will send you a fully developed plan template which will help you in developing your own plan.*

## DID I MENTION THAT THIS IS MATERIAL TAUGHT IN A CREDITED CLASS AND YOU'RE GETTING IT FOR FREE?

Want to take this class in a classroom and get CEU's? Visit <https://www.dustkiller.tools/events/>





# STEP 1

## TABLE 1 VS. TABLE 2

OSHA has two methods by which contractors may meet the compliance requirements. Here are questions that must be answered when considering which option is the best fit.

- What types of work are you doing? Grinding, cutting, drilling, crushing, demolition? What types of tools do you use? What kind of materials are you handling? All have unique requirements in Table 1.
- Table 1 has very strict limitations. Can your company work within those requirements and remain profitable?
- Table 2 is more flexible but requires more data & testing. Does your company have the resources and knowledge to do the exposure testing?
- Will methods approved in Table 1 require you to also meet the medical surveillance requirements? Will you also be subject to the Respiratory Protection Standard?

*OSHA has published the Small Entity Guide for the Respirable Crystalline Silica Standard for Construction, and it's an invaluable resource for complying with the law!*





# STEP 2

## ENGINEERING CONTROLS

OSHA demands an engineering control to be the primary hazard control, recognizing vacuum and water.

- What are the differences between engineering, administrative, and Personal Protection Equipment (PPE) hazard controls?
- What are the pros & cons of using water to control the dust? How must the slurry be removed?
- What are the pros & cons of using vacuum?
- Will water or vacuum also require use of a respirator?

*We'll answer all these questions on the Day 2 email. Remember, the information you will learn in this day-by-day email is what I teach to help contractors know what is required and respond correctly.*





# STEP 3

## EXPOSURE TESTING

OSHA requires exposure testing to be completed for engineering controls in Table 2.

- How is the test done?
- What are the acceptable exposure limits?
- When must the test be done?
- How long must records be kept, and should employees have access to the records?

*On Day 3 I'll be sending an email answering these questions. What for it in your inbox.*





# STEP 4

## PERSONAL PROTECTIVE EQUIPMENT (PPE)

OSHA has developed standards for respirator use in Table 1. Table 2 may also require respirator use. Certain types of respirator use may trigger sections of the Respiratory Protection Standard.

- What are the common types of respirators?
- How often can you wear a respirator?
- Can employees voluntarily wear a respirator?
- Do workers completing other tasks, or other nearby persons, also need protection?

*Watch out for the Email on Day 4 explaining all the ins and outs of personal protective equipment.*





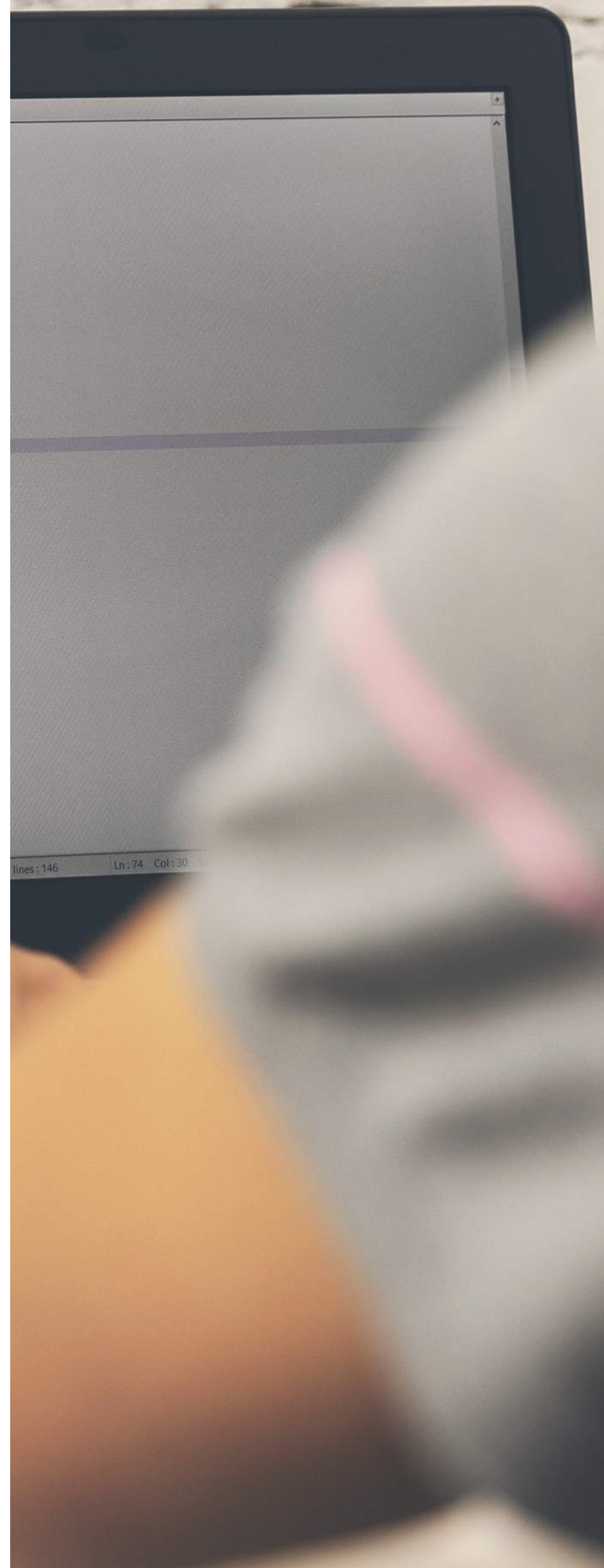
# STEP 5

## WRITTEN CONTROL PLAN

OSHA requires a written control plan for every company whose activities may expose their workers to respirable crystalline silica.

- What are the penalties for not completing a written control plan?
- What must be included in the plan?
- Where is the best place to keep the plan?

*Did you know that the highest OSHA fine on record was \$304,000? Watch out for an email on Day 5 about how to avoid anything close to that!*





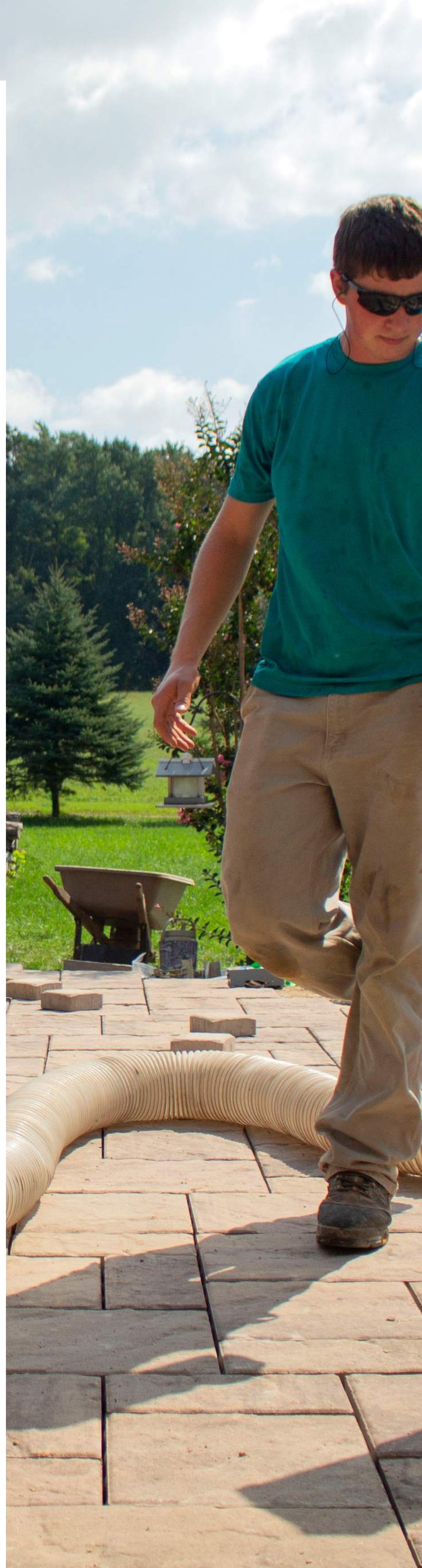
# STEP 6

## COMPETENT PERSON

OSHA requires that a person be designated as a “competent person” and be responsible for ensuring the safety of the crew.

- Who is qualified to become a competent person?
- What training is required prior to being designated a competent person?
- Must the competent person remain on the jobsite at all times?
- What are the responsibilities of the competent person?

*Who on your team could be the best person to ensure compliance? Watch out for an email on Day 6 about what is required to comply with this part of the law.*





# STEP 7

## MEDICAL SURVEILLANCE

OSHA has determined that some levels of exposure to respirable silica require medical surveillance. This evaluation is used to detect early stages of silicosis and prevent further exposure.

- Which companies are required to provide medical surveillance?
- When must the exam be offered, and how often must it be repeated?
- Who is responsible for the cost?
- How long must records be retained?

*Watch out for an email on Day 7 covering these questions and get ready to start implementing what you learn!*

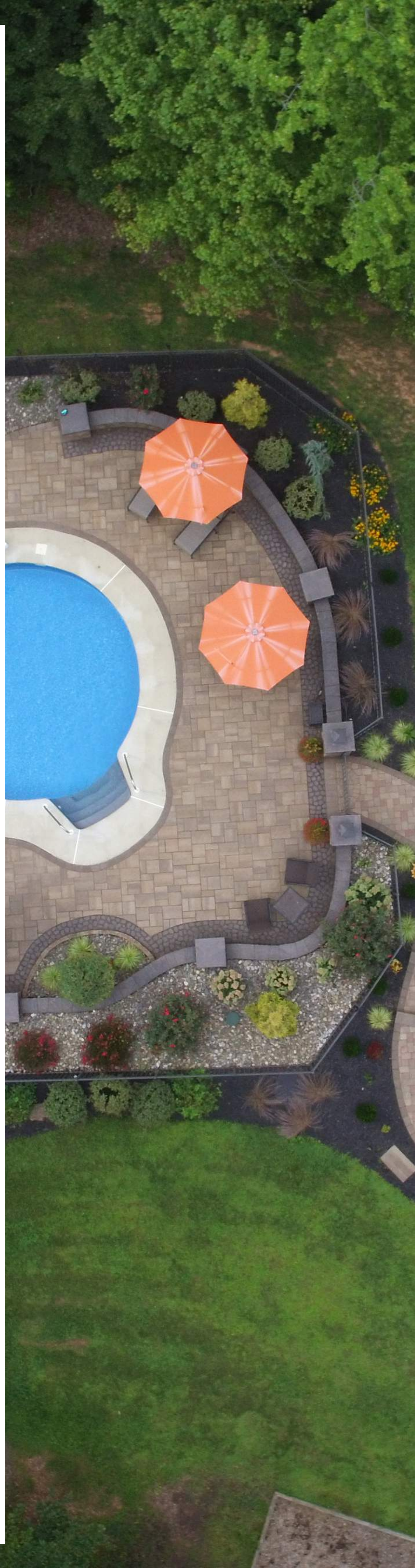




# DISCLAIMER

This plan details the major steps needed for complying with the OSHA Respirable Crystalline Silica Standard. It is a result of extensive study of the law, and the steps we took for Willow Gates Landscaping LLC to become compliant. These 7 steps are not guaranteed to ensure complete compliance with every minute detail of the law. We encourage all users to study the law and any other resources available. Dust Tech LLC, Dust Killer Tools, and Willow Gates Landscaping LLC are not liable for any sickness or injuries, OSHA violations, or any other potential liabilities incurred as a result of using this action plan.

**Use of this material:** This plan is provided to all attendees of Contractor's Guide for 2017 OSHA Silica Rule for use within their own organization only. Please use it train your employees, managers, etc. in developing and implementing your silica safety plan. Please do not share the 7 Step Action Plan or other materials outside your organization.



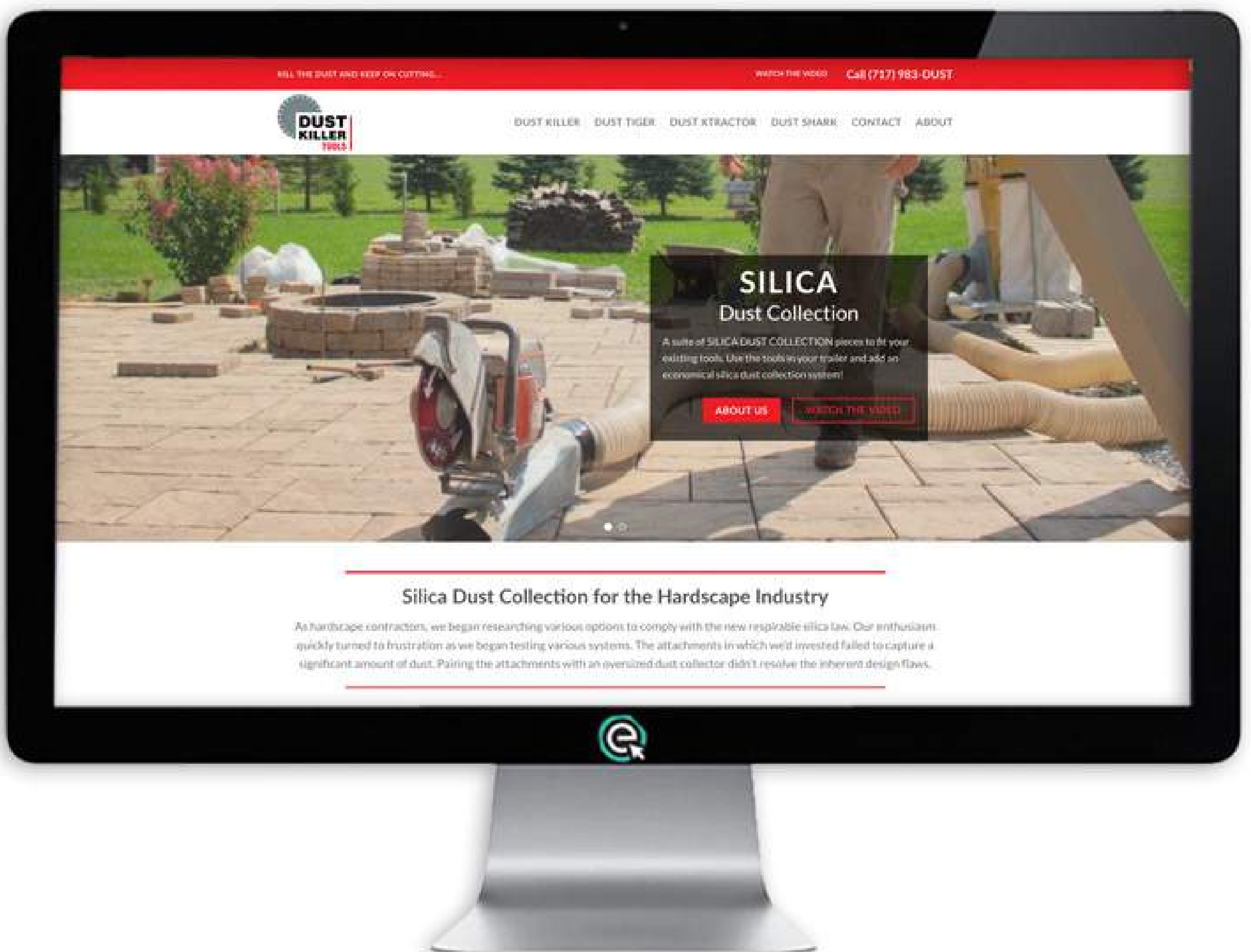


# THE DUST KILLER TOOLS

## YOUR SOLUTION TO A SAFER JOB SITE

As hardscape contractors, we began researching various options to comply with the new respirable silica law. Our enthusiasm quickly turned to frustration as we began testing various systems. The attachments in which we'd invested failed to capture a significant amount of dust. Pairing the attachments with an oversized dust collector didn't resolve the inherent design flaws. Scroll on to see the tools we've developed to help other contractors protect themselves and their pocketbooks!

Visit our Website to Find a Silica Class to Attend  
<https://www.dustkiller.tools/>  
717-983-DUST





# THE DUST KILLER

## SILICA DUST COLLECTION VACUUM

You'll love this easy to move DUST KILLER to protect your workers and your clients from dangerous silica dust. This silica dust collection system can be used with other collection attachments.

*At 33" wide, it fits through most doorways and gates. The Dust Killer is equipped with a 4", 6", and 8" takeoff. It will support a 20" table saw, 14" cutoff saw, and 4" grinder simultaneously.*





# THE DUST TIGER

## TABLE SAW ATTACHMENT

With the Dust Tiger silica dust attachment, you can cut your block on a table saw and be safe from the dust. Enjoy your work more and keep the dust down for your clients. Table saws are the fastest, most accurate way to cut wall block or precise miters on pavers. If you already have a table saw, this is a great way to bring it into OSHA compliance!

*The Dust Tiger may be retrofitted to most stationary table saws. It efficiently captures dust from cutting block, stone, or pavers. It has an 8" diameter discharge.*





# THE DUST XTRACTOR

## CUT-IN-PLACE ATTACHMENT

Lay your concrete pavers and then cut them in place with your own saw and the silica dust attachment made for the job. No need to buy a new saw with Dust Killer Tools attachments.

*Use the Dust Xtractor for cutting pavers in place or cutting control joints in concrete. It may be used on both curved and straight cuts, and the saw blade does not need to be fully plunged to capture the dust. A non marking wear plate is installed on the bottom. It attaches to a Stihl or Husqvarna cutoff saw and can be quickly installed or removed.*





# THE DUST SHARK

## WALL CUTTING ATTACHMENT

Protect your employees and your customers with a Silica Dust Attachment for your existing saws. Why buy a new saw when you can add this attachment and protect yourself from silica dust on your hardscape job?

*The Dust Shark is intended for use in cutting wall block or paver border pieces. It attaches to a Stihl or Husqvarna cutoff saw and can be quickly installed or removed. It shares the same mounting bracket with the Dust Xtractor. The Dust Shark is designed to be paired with a 6" hose, and we recommend a minimum of 400 cfm for best performance.*





# 7

## STEP PLAN FOR OSHA SAFE SILICA CONTROL



<https://www.dustkiller.tools/>