WHS DOCUMENTS & TEMPLATES

DOC-AIR-CCV · Silica and Asbestos Exposure Critical Control Verification Pack

Product Overview

For: Businesses that create silica dust or may disturb asbestos: WHS advisers, construction and maintenance managers, supervisors

Version 1.0 · 15 November 2026

SAMPLE

Field-ready Critical Control Verification forms for airborne silica and asbestos: one for each of the 7 critical controls that stop a worker breathing silica dust or asbestos fibres above the exposure standard, or limit the harm when it happens, with the bowtie, a verification schedule and a short guide.

Most workplaces have controls for airborne silica and asbestos: water suppression, on-tool extraction, asbestos checks before work, enclosures, fitted respirators and decontamination. The question is whether they are working today. A critical control verification (CCV) is the proof: a planned check, in the field, that a control that matters most is in place, in good condition, working as designed, used properly and not bypassed.

This pack gives you one CCV form for each of 7 critical controls (5 preventing, 2 mitigating) for the unwanted event: worker breathes silica dust or asbestos fibres above the exposure standard. Each form shows where the control sits on the bowtie, what it must achieve, how it fails, and a checklist scored Pass, Fail or Non-conformance. Physical controls are Pass or Fail only; Non-conformance is kept for administrative items such as records and training dates. A Fail stops the work and is escalated as a high potential incident. The last page of each form has prompts for talking to the operators, workers and supervisors who use the control.

The full bowtie shows every control on one page, the schedule sets who verifies each one and how often, and the guide explains the method. Every form is editable, so you can adapt it to your site. Made by Orana Skills Centre.

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How to Use These CCVs

Silica and Asbestos Exposure Critical Control Verification Pack

What a critical control verification is

The key word here is proof. Not assumption, not guesswork. A critical control verification (CCV) is a planned check, in the field, that one critical control is doing its job. It checks that the control:

- Exist
- Are in place and in good condition
- Are functioning as designed
- Are being used properly
- Are not being bypassed or failing silently

Each CCV form tests one control against its performance requirements, item by item, grouped by those five checks and then the records. It is not a general inspection, an audit, or a maintenance check: keep those, and use the CCVs alongside them for the few controls that matter most.

The bowtie and the critical controls in this pack

Hazard: Respirable crystalline silica dust and asbestos fibres. Unwanted event: Worker breathes silica dust or asbestos fibres above the exposure standard. Cutting, grinding, drilling, chasing, crushing, polishing and demolishing concrete, stone, brick, tiles, render and other materials that contain crystalline silica, and any work that could disturb asbestos-containing material, including maintenance, refurbishment, demolition and removal. For asbestos, aim for no exposure at all: there is no known safe level.

CCV	Critical control	Type	Sits on	At your site
CCV-01	Water suppression or on-tool extraction on every cutting, grinding and drilling task	Preventing	T1, T5	Use at every site where the threat or consequence is present.
CCV-02	No work on any material until its asbestos status is known	Preventing	T2	Use at every site where the threat or consequence is present.
CCV-03	Asbestos removed or worked on only with enclosure, wet methods and the right licence	Preventing	T3	Use where asbestos is removed or worked on. Licensing and notification differ between jurisdictions: check with your regulator.
CCV-04	Respirators fitted, fit-tested and worn where dust or fibres remain	Preventing	T1, T3	Use at every site where the threat or consequence is present.
CCV-05	Dust cleaned by wet methods or H-class vacuum, never dry sweeping or compressed air	Preventing	T4	Use at every site where the threat or consequence is present.
CCV-06	Decontamination so no dust leaves on clothes, tools or vehicles	Mitigating	C3	Use at every site where the threat or consequence is present.
CCV-07	Health monitoring for exposed workers, with action on the results	Mitigating	C1, C2	Health monitoring cannot undo exposure; it is critical here because removing a worker with early signs from further exposure limits the disease, and results show when controls are failing. Check the current rules with your regulator.

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YOUR LOGO
Right-click > Change Picture

[Company name]

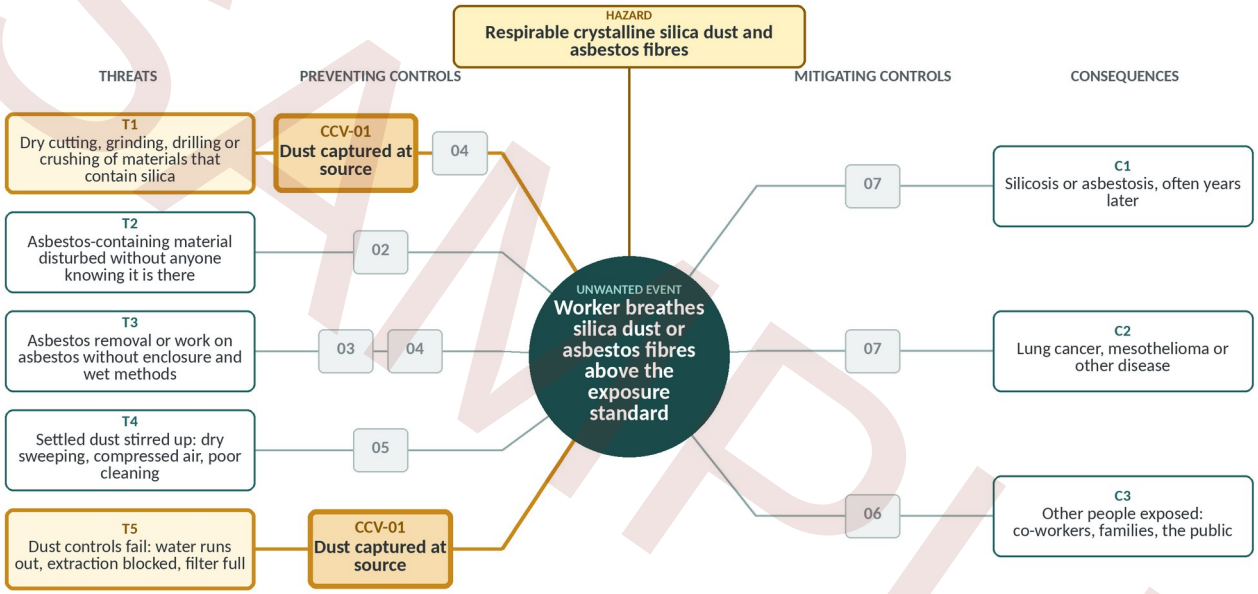
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CCV-01 Water suppression or on-tool extraction on every cutting, grinding and drilling task

Critical Control Verification · Preventing control · Airborne silica and asbestos

Site or location		**Plant or area verified**	
Date and time		**Shift**	
Verified by (name and role)		**Control owner**	

1 Where this control sits on the bowtie



Amber: this control, CCV-01, on threat lines T1 and T5. Grey numbers: the other critical controls in this pack. Preventing controls sit left of the unwanted event and stop it happening; mitigating controls sit right of it and limit the harm.

2 The control

Control	Water suppression or on-tool extraction on every cutting, grinding and drilling task
Type	Preventing: it stops the unwanted event happening.
It sits on	Threat T1: Dry cutting, grinding, drilling or crushing of materials that contain silica; threat T5: Dust controls fail: water runs out, extraction blocked, filter full
Hierarchy of control	Engineering
Objective	Stop respirable silica dust getting into the air at the tool: every task that cuts, grinds, drills, chases, polishes or crushes silica-containing material uses water suppression at the right flow, or on-tool extraction to an H-class or equivalent vacuum, working every time.
Why it is critical	Respirable silica dust is too fine to see and stays in the air for hours. Dry cutting can put a worker over the exposure standard in minutes. Capturing the dust at the tool is the control that keeps it out of the lungs.

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YOUR LOGO
Right-click > Change Picture

[Company name]

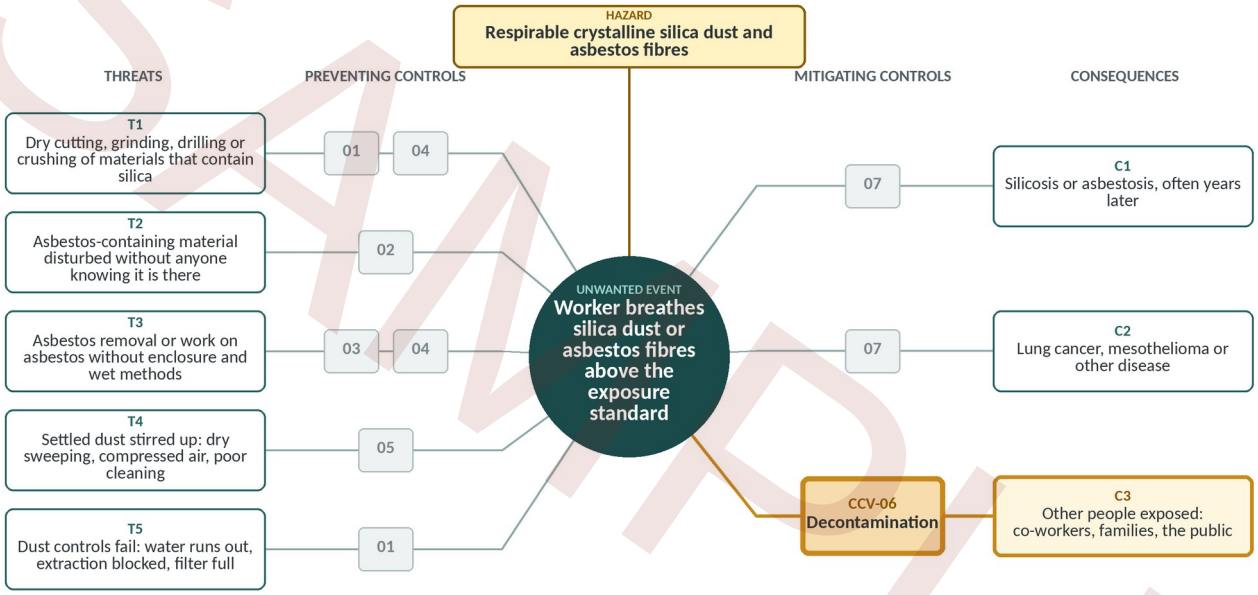
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CCV-06 Decontamination so no dust leaves on clothes, tools or vehicles

Critical Control Verification · Mitigating control · Airborne silica and asbestos

Site or location		**Plant or area verified**	
Date and time		**Shift**	
Verified by (name and role)		**Control owner**	

1 Where this control sits on the bowtie



Amber: this control, CCV-06, on consequence line C3. Grey numbers: the other critical controls in this pack. Preventing controls sit left of the unwanted event and stop it happening; mitigating controls sit right of it and limit the harm.

2 The control

Control	Decontamination so no dust leaves on clothes, tools or vehicles
Type	Mitigating: it limits the harm once the unwanted event has happened.
It sits on	Consequence C3: Other people exposed: co-workers, families, the public
Hierarchy of control	Administrative
Objective	Keep silica dust and asbestos fibres at the work: workers decontaminate before breaks and before leaving, work clothing is cleaned at work or disposed of, and tools and vehicles are cleaned before they leave the site.
Why it is critical	Dust carried home on clothing has caused disease in partners and children who never set foot on site. Decontamination limits who else is exposed once dust has been released.

3 Performance requirements

What the control must achieve. The checklist in part 5 tests each one.

No.	The control must meet this requirement
R1	Workers remove dust from their clothing by vacuum or wet methods, or remove disposable coveralls, before breaks and before leaving.

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END OF THE FREE SAMPLE

This sample shows a few pages, so you can judge the layout and the quality. Field-ready Critical Control Verification forms for airborne silica and asbestos: one for each of the 7 critical controls that stop a worker breathing silica dust or asbestos fibres above the exposure standard, or limit the harm when it happens, with the bowtie, a verification schedule and a short guide.

What the full product contains

- **7 Critical Control Verification forms, one per critical control (5 preventing, 2 mitigating): each with its bowtie, objective, performance requirements, failure modes, a Pass / Fail / Non-conformance checklist, the overall result, actions, a page of prompts for talking to the people who use the control, and sign-off**
  03_CCV_FORMS/ (Word and PDF)
- **The critical controls: CCV-01 Dust captured at source (preventing); CCV-02 Asbestos status known (preventing); CCV-03 Controlled asbestos work (preventing); CCV-04 Fitted respirators (preventing); CCV-05 No dry sweeping (preventing); CCV-06 Decontamination (mitigating); CCV-07 Health monitoring (mitigating)**
  03_CCV_FORMS/CCV-01 to CCV-07
- **The full bowtie for airborne silica and asbestos on one page: every threat, consequence and critical control**
  02_BOWTIE/Silica and Asbestos Exposure Bowtie.docx and .pdf
- **The CCV schedule: who verifies each control, how often by exposure, the method and the record**
  04_CCV_SCHEDULE/CCV Schedule.docx and .pdf
- **The CCV schedule workbook: suggested frequency by exposure, next due dates and status by formula, dropdowns, no macros**
  04_CCV_SCHEDULE/CCV Schedule.xlsx
- **How to use these CCVs: the method, scoring, the response to a Fail or Non-conformance, frequency, and adapting the set to your site**
  01_START_HERE/How to Use These CCVs.docx and .pdf
- **Read Me First, Product Overview, Permitted Use Terms and Version Information**
  01_START_HERE/ (PDF)

Formats

- Word (.docx), editable, with your logo and business name in the header
- Excel (.xlsx), editable, with dropdowns and formulas (no macros)
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