

Kia Oho Ake

QUICK PRINT

Dusty work: how controls keep us safe



Learning objectives

- Describe three different types of dust controls
- Identify how these controls may keep everyone safer

Equipment

- How controls keep us safe chart
- Dust controls cards

Note: Recommend completing the 'Dust Controls' Quick Print first.

Learning experience

1. Dust is an airborne risk that can cause harm to our lungs, skin and eyes. It is important that we control the risks caused by dust.
As a class, discuss the hierarchy of controls and different dust controls. Encourage ākongā to recall which controls are more effective at keeping us safe. For example, which is safer: wearing a respirator to do dusty work or using on-tool extraction to remove dust?
 - Kaiako hint: Prompt students to think about how they can remove a risk or minimise it to protect everyone around them, rather than just protecting themselves with PPE.
2. In pairs, complete the sorting activity 'How controls keep us safe' by matching each control to the way it keeps us safe. For example, buying pre-cut timber removes the risk from cutting wood. No dust is created.
3. Review as a class and discuss how knowing the 'why' and 'how' controls work can help with risk management.
 - Knowing 'why' to use a control and 'how' the control protects us helps show the importance of using the controls.
 - For example, wearing seat belts helps keep us safe in a car crash by keeping us from being thrown around in the vehicle. Wearing long sleeves and a hat when working outside helps protect us from the sun by keeping UV rays from reaching our skin.
4. As a class, evaluate controls and choose the safest control. Start by using the following pairs of controls:
 - respirator or getting wood pre-cut
 - using job rotation or on-tool extraction
 - prompt for kaiako: ask ākongā to justify their choice, how does the control keep us safe? Why is that the safest option/important etc?

Supporting resources: For students to do on devices

WORKSAFE
Mahi Haumarū Aotearoa



PICKLED!



Answers

<p>ELIMINATE Get rid of</p>	<p>Removes the risk caused by cutting wood. No dust is created. Protects the most people</p>	 <p>Buy precut materials</p>	
<p>SUBSTITUTION Replace</p>			
<p>ISOLATE Keep away</p>	<p>Keeps dusty work in one place, away from other work</p>	 <p>Put up barriers between people doing dusty work and everyone else</p>	
<p>ENGINEERING CONTROLS</p>	<p>Removes most of the dust as it is created</p>	 <p>Check machines to make sure they are in great shape</p>	 <p>On-tool wet dust suppression</p>  <p>Spray water over the work area</p>  <p>Use a local exhaust ventilation (LEV) to remove dust</p>
<p>ADMIN CONTROLS</p>	<p>Minimises the amount of time someone is doing a dusty job or the number of people exposed</p>	 <p>Vacuuming up the dust regularly instead of sweeping</p>	 <p>Take turns doing jobs that are dusty</p>  <p>Signs to stop people going into an area with lots of dust</p>  <p>Good hygiene</p>
<p>PPE AND RPE</p>	<p>Protects the worker from breathing in the dust or getting it on their body</p>	 <p>Use appropriate respirator when doing a job that creates dust</p>	 <p>Eye protection</p>  <p>Dust mask (disposable P1/P2 respirator)</p>

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Dust controls cards

Match these controls to its purpose in the How controls keep us safe chart

 <p>Buy pre-cut materials</p>	 <p>Respiratory mask</p>	 <p>Good hygiene</p>	 <p>Check machines to make sure they are in great shape</p>	 <p>Signs to stop people going into an area with lots of dust</p>
 <p>Eye protection</p>	 <p>Use appropriate respirator when doing a job that creates dust</p>	 <p>Spray water over the work area</p>	 <p>Use on-tool extraction to remove dust</p>	 <p>On-tool wet dust suppression</p>
 <p>Put up barriers between people doing dusty work and everyone else</p>	 <p>Take turns doing jobs that are dusty</p>	 <p>Vacuum up the dust instead of sweeping</p>	 <p>Use local exhaust ventilation (LEV) to remove dust</p>	

How controls keep us safe chart

ELIMINATE Get rid of	Removes the risk caused by cutting wood. No dust is created. Protects the most people
SUBSTITUTION Replace	Swap out materials or work method for a less harmful option
ISOLATE Keep away	Keeps dusty work in one place, away from other work
ENGINEERING CONTROLS	Removes most of the dust as it is created
ADMIN CONTROLS	Minimises the amount of time someone is doing a dusty job or the number of people exposed
PPE	Protects the worker from breathing in the dust or getting it on their body