WELCOME TO















A Welcome from RVT Group



Technical Consultant RVT Group





ACTION ON RESPIRATORY HEALTH









Noise



Fumes



Exhaust



Ventilation



Monitoring



Climate



Water Treatment





Heating
Care Facility Development, Outer Hebrides



Noise Control
Shieldhall Strategic Tunnel, Glasgow



Dust and Noise Control Leisure Centre, Glasgow



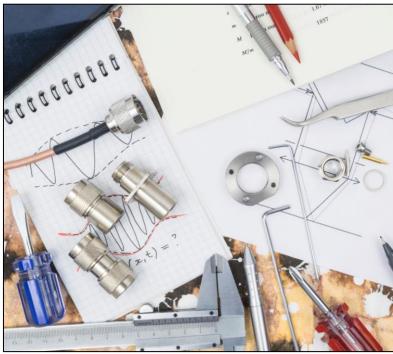
Ventilation
Queen Street Rail Tunnel, Glasgow



Heating
Royal Bank of Scotland, Edinburgh













- √ Case Studies
- √ Whitepapers
- ✓ Best Practice Guides
- √ Toolbox Talks
- √ H&S Posters









Event Introduction



Chair Construction Dust Partnership



Agenda

- 09.00 am Event Open and Welcome from RVT Group
- 09.10 am Keynote Speech; Respirable Site Hazards
- 09.50 am Three Things You Should Know About Construction Noise
- <u>10.10 am</u> Preventing Stress in Construction
- 10.30 am Quiz Master; Construction Edition
- 10.50 am Networking and Exhibition Break



Agenda

- 11.20 am Construction Dust and 20 years of COSHH; Are We in Control?
- 11.40 am Tackling MSDs Head On
- 12.00 pm Implementing Best Practice On Site; A Contractor's Perspective
- 12.20 pm What do YOU think?
- 13.00 pm Networking Lunch and Meetings with RVT Group
- 14.00 pm Event Close



Keynote Speech; Respirable Site Hazards

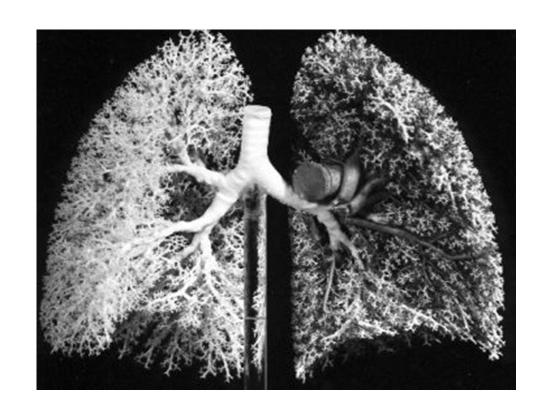


Chief Medical Adviser HSE





The Lungs at Work formidable yet fragile



Professor David Fishwick d.fishwick@sheffield.ac.uk
University of Sheffield, HSE and Emeritus Sheffield Teaching Hospitals NHS FT

THIS PART OF THE PRESENTATION HAS BEEN REMOVED DUE TO SENSITIVE INFORMATION

Three Things You Should Know About Construction Noise



Specialist Inspector (Noise & Vibration)
HSE







Three things you should know about construction noise

Chris Steel

Principal Specialist Inspector (Noise & Vibration)

April 2023 (15-20)

1. Do we have a workplace noise problem?

2. Is the hearing protection working?

3. How do we reduce noise?

How do we know if I have a workplace noise problem?



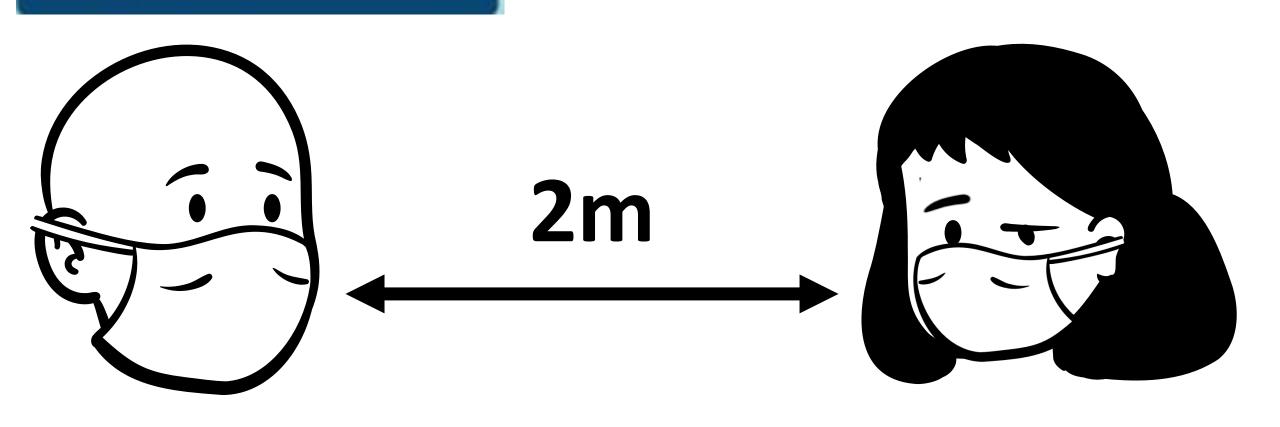




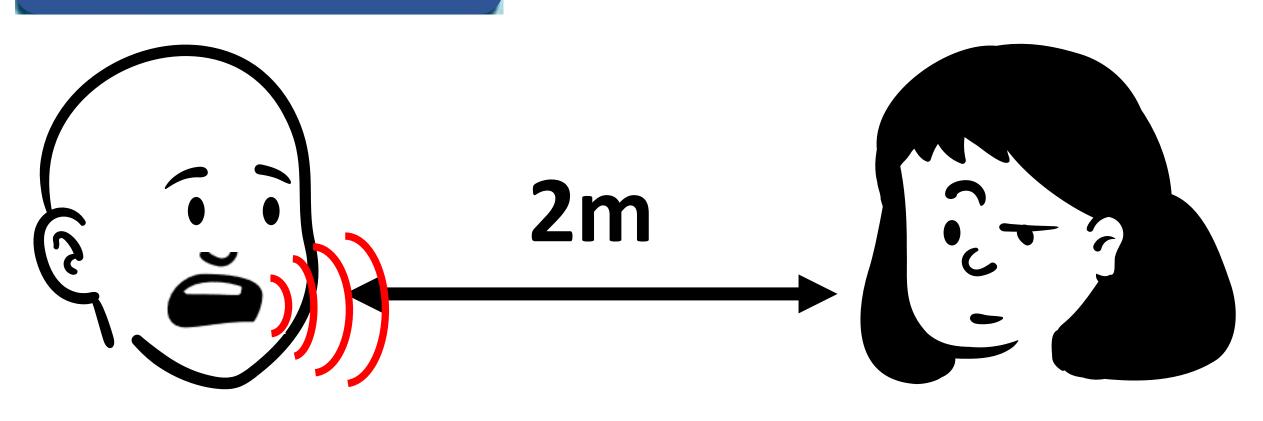


Task ¹ name / description	Noise level ¹ L _{Aeq} (dB(A))	Time (in hh:mm) to	
		LEAV	UEAV
Plate Compactor	89	1:00	3:11
Circular Saw	91	0:38	2:00
Multi-Tool92	92	0:30	1:35
Hammer Drill	102	0:03	0:09

Coronavirus Covid-19



Shout to be heard. 2 hours. Need's a risk assessment



How much do you have to shout

Should have a risk assessment

Have to shout at 2 m to talk

about 85dB, If they do the job for at least 2 hours it should have a risk assessment

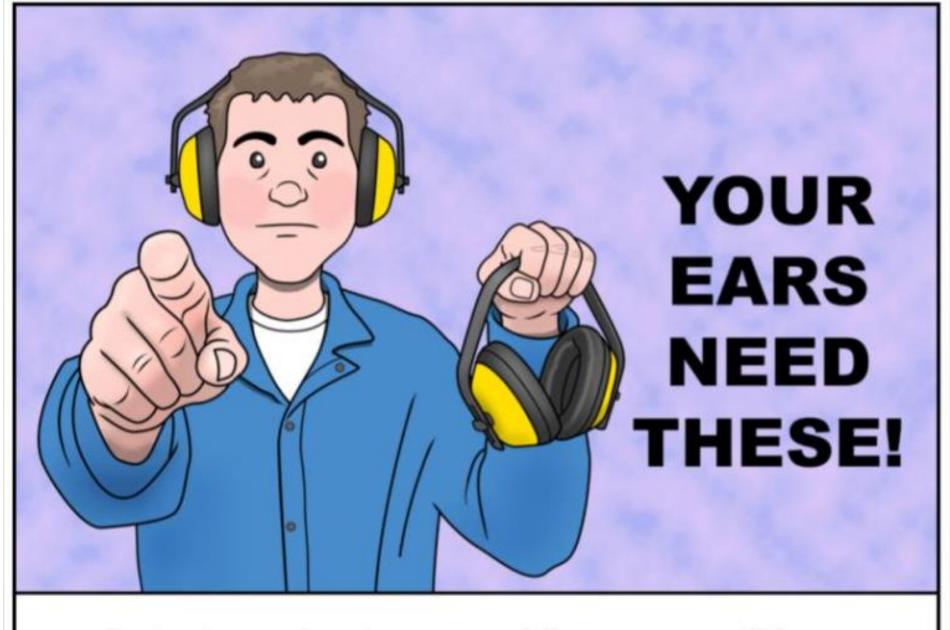


Noise Level

1984 - LAeq 102dB

2019 - LAeq 101dB

Task ¹ name / description	Noise level ¹ L _{Aeq} (dB(A))	Time (in hh:mm) to	
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Hammer Drill	102	0:03	0:09



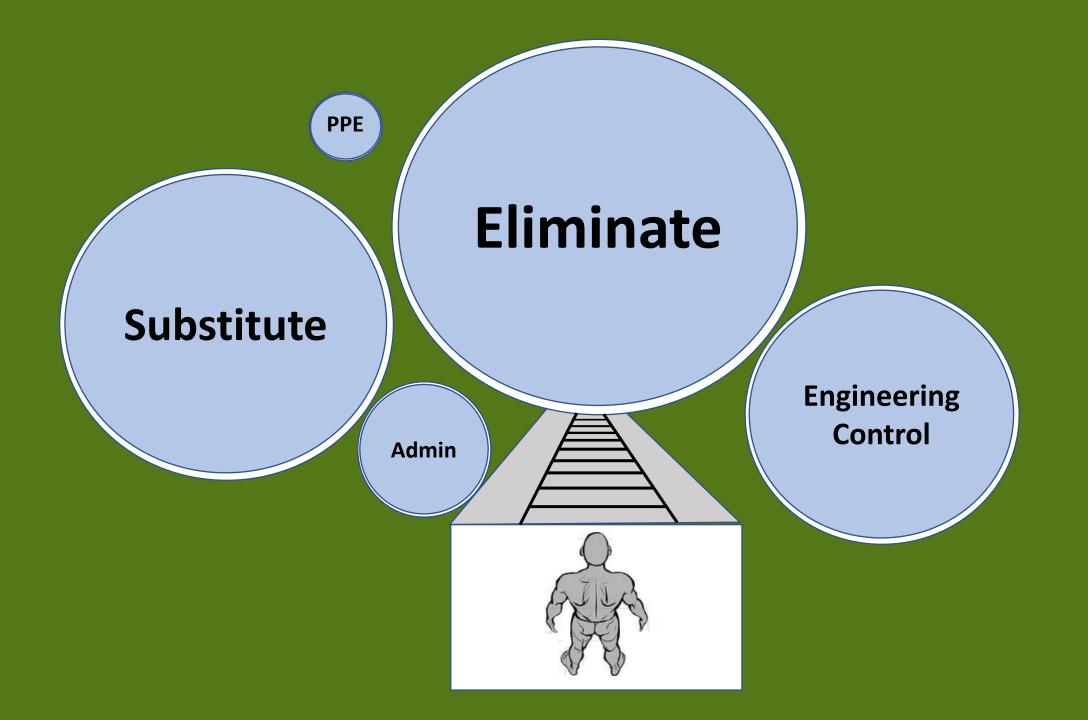
Protect your hearing now, while you can still hear.

Is the hearing protection working?









When checking hearing protection think

C.U.F.F.

C - Condition U – Use F – Fit the ear F - Fit for purpose







Noise level dB(A)	Select a protector with an SNR of
85-90	20 or less
90-95	20-30
95-100	25-35
100-105	30 or more

C - Condition

U — Use

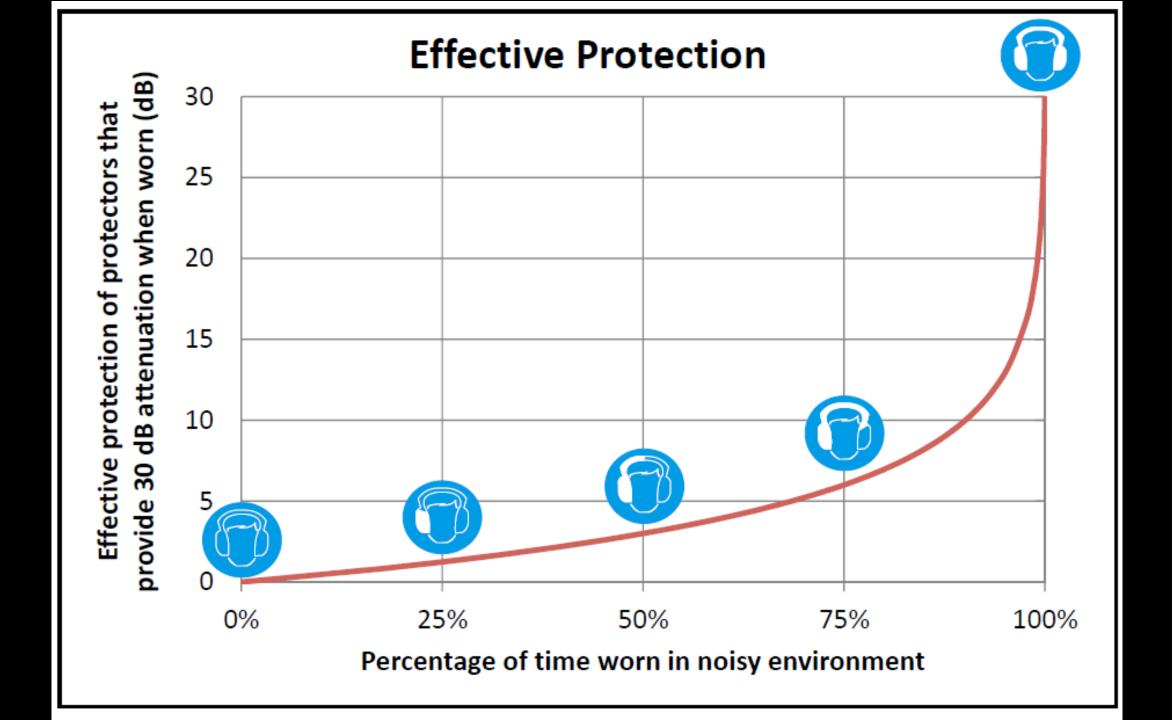
F — Fit the ear

F — Fit for purpose



C - Condition U – Use F-Fit the ear

F – Fit for purpose



C - Condition U — Use F-Fit the ear

F – Fit for purpose



Figure 17 Correct fitting of earplugs



Figure 18 Incorrect fitting of earplugs

C - Condition U — Use F — Fit the ear F - Fit for purpose



Hearing Protection Calculator - SNR method

The SNR method of hearing protection calculation uses:

- SNR value, available from the hearing protector supplier
- C-weighted (L_C or L_{Ceq}) noise levels at the workplace

NOTE: the L_{Ceq} value should not be confused with the peak noise level L_{Cpeak} , which is also measured in units of dB(C)

HEARING PROTECTOR	WORKPLACE NOISE			
Make/Model:	Location/Machine:			
SNR value	C-weighted Level	Protected noise level at the ear	HSE recommended value for the likely noise level at the ear	Protection rating ?
SNR	L _c	$(L'_A = L_C - SNR)$	$(L'_A + 4)$	
dB	dB(C)	dB	dB(A)	
28	93	65	69	Over-protection

How do we reduce workplace noise?

An actual concern raised by an employee to the HSE......

"I am working on a project where they are using a percussive piling rig and it is not clear who needs to wear hearing protection "

"I think they could have used a quieter piling system but how do I get them to change?"

AWF Construction							SIMPLE GANTT CHART by Vertex42.com https://www.vertex42.com/ExcelTemplates/simple-gantt-chart.html																						
B Bainbridge		Project Start:	Mon, 2/	Mon, 2/27/2023																									
			1		Feb 27, 2023		Mar 6, 2023			Mar 13, 2023			Mar 20, 2023		Mar 27, 2023			Apr 3, 2023			Apr 10, 2023			Apr 17, 2023					
TASK	ASSIGNED TO	PROGRE SS	START	END		7 W				10 11 F S				9 20 21 3 6 M T														7 F	
Design																													Т
Scoping	AWF construction	50%	2/27/23	3/2/23																									
Initial site survey	AWF surveying	60%	3/2/23	3/4/23		П																							
Planning	AWF Design team	50%	3/4/23	3/8/23																									
Detailed design	AWF Design team	25%	3/8/23	3/13/23																									
Financing	AWF Finance	30%	3/3/23	3/5/23																									
Site Preperation																													
Physical Survey		50%	3/4/23	3/8/23																									
Enviromental Survey		50%	3/6/23	3/11/23																									
Ground Survey			3/11/23	3/14/23																									
Site Security + Facilities	es		3/11/23	3/13/23																									
Setting out			3/11/23	3/14/23																									
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Ground works			3/14/23	3/19/23																									
Foundations			3/20/23	3/24/23																									
Structure			3/25/23	3/30/23																									

AWF Developm AWF Construction		SIMPLE GANTT CHART by Vertex42.com https://www.vertex42.com/ExcelTemplates/simple-gantt-chart.html												
B Bainbridge		Project Start:	Mon, 2/27/2023											
		Display Week:	1		Feb 27, 2023	Mar 6, 2023	Mar 13, 2023 12 13 14 15 16 17 18 19	Mar 20, 2023	Mar 27, 2023	Apr 3, 2023	Apr 10, 2023	Apr 17, 2023		
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Scoping	AWF construction	50%	2/27/23	3/2/23										
Initial site survey	AWF surveying	60%	3/2/23	3/4/23			caused	1 the	noisy	task				
Planning	AWF Design team	50%	3/4/23	3/8/23			caasco		11013 y	tasit				
Detailed design	AWF Design team	25%	3/8/23	3/13/23										
Financing	AWF Finance	30%	3/3/23	3/5/23										
Site Preperation														
Physical Survey		50%	3/4/23	3/8/23										
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Ground Survey			3/11/23	3/14/23										
Site Security + Facilities			3/11/23	3/13/23										
Setting out			3/11/23	3/14/23										
Consturction										loisy t	task			
Ground works			3/14/23	3/19/23										
Foundations			3/20/23	3/24/23										
Structure			3/25/23	3/30/23										

Could the process change?









Could the design change?



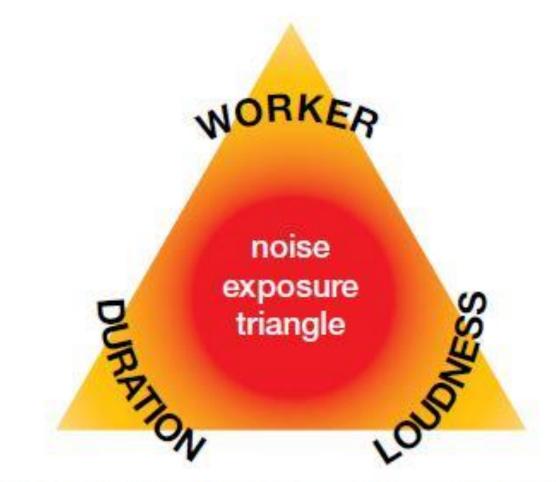




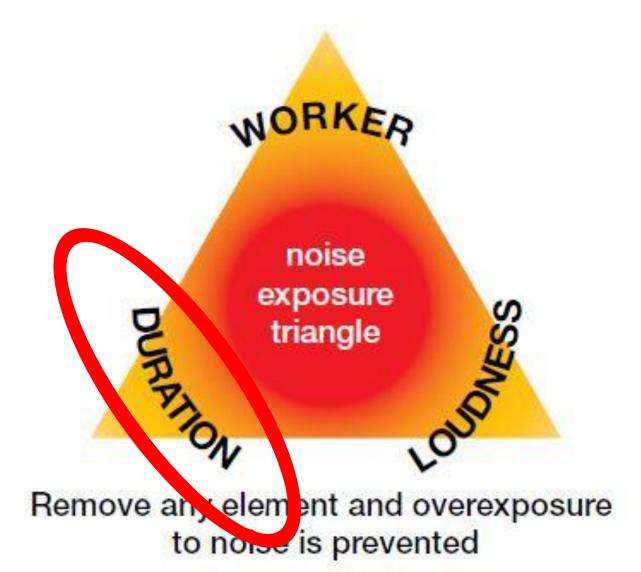
Noise Level

1984 - LAeq 102dB

2019 - LAeq 101dB



Remove any element and overexposure to noise is prevented







(18 sec)

LAeq 93dB LAeq 96dB (3 sec)



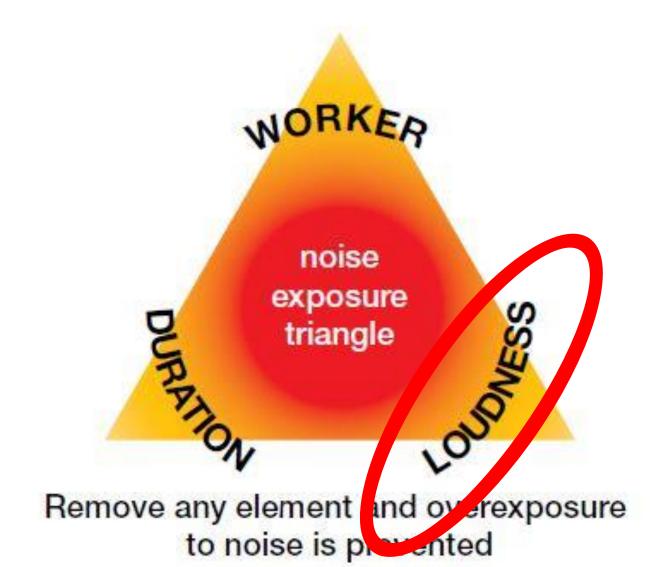






Remove any element and overexposure to noise is prevented









LAeq 98dB (18 sec)

Stud Cutter

2. Is the hearing protection working?

2. Is the hearing protection working?

2. Is the hearing protection working?

2. Is the hearing protection working?

2. Is the hearing protection working? (CUFF)

2. Is the hearing protection working? (CUFF)

2. Is the hearing protection working? (CUFF)

3. How do I reduce noise? (Next time)

Preventing Stress in Construction



Senior Policy Advisor, Construction Division HSE







Preventing Work Related Stress in Construction

Mark Ashby
Senior Policy Advisor
Health and Safety Executive
Construction Division



What I will cover

Mental health in construction and HSE's role

HSE Working Minds campaign

The Video has been removed from this part of the presentation





Background

- Stress depression and anxiety accounts for 27% of all work-related illness in construction industry
- Tight deadlines identified as the number 1 cause of poor mental health (CN Mind Matters Survey 2022)
- 36% of workers felt compelled to work despite suffering with their mental health (CN Mind Matters Survey 2022)
- More than **1** in **10** workers said they took time out because of either mental health problems or unmanageable stress, or both. And almost **3** in **5** said they did not disclose the true reason to their employer (CN Mind Matters Survey 2022)

Common Stressors in Construction



- Demanding workloads
- Long hours
- Tight deadlines
- Excessive travelling and commuting
- Client demands
- Working away from home
- Bullying and Harassment
- Drugs and alcohol
- Poor welfare facilities
- Work Environment Issues (such as noise and other hazards, weather conditions)
- Late payments
- Emails etc.
- Material shortages and inflation





















Prevent, Promote and Support



MAKE IT ROUTINE— REACH OUT > RECOGNISE > RESPOND > REFLECT



We're calling for a culture change across Britain's workplaces where recognising and responding to the signs of stress becomes as routine as managing workplace safety.

Employers often not aware of their legal duties or how to recognise and respond to the signs of stress Risks from work-related stress are not treated in the workplace the same way as physical risks are.







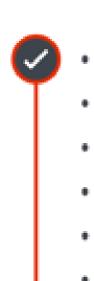
Why take action?

- Stress can lead to chronic physical and mental health conditions that can seriously impact workers health
- It's a legal duty for employers
- It's good for your business
- It's the right thing to do



WORKING MINDS MAKE IT ROUTINE REACH OUT > RECOGNISE > RESPOND > REFLECT

- Reach out
- Recognise
- Respond
- Reflect
- Make Routine



- Demands
- Control
- Support
- Relationships
- Role
- Change



What should small construction businesses be doing?

- Be aware of the key issues and the importance of good mental health at work.
- Use the talking toolkit and other tools to start having a conversation about / assessing the risks in their workplace
- To start to act on key findings by taking positive action
- Address other important contributory issues such as poor environmental factors (like welfare and noise)
- Co-operate, co-ordinate and communicate with all involved in a project. (CDM)





Help and resources

Working Minds and the 5Rs: www.workright.campaign.gov.uk

- HSE mobile app
- Talking Toolkits
- Risk assessment template
- HSE Management Standards
- Become a Working Minds champion (monthly updates)

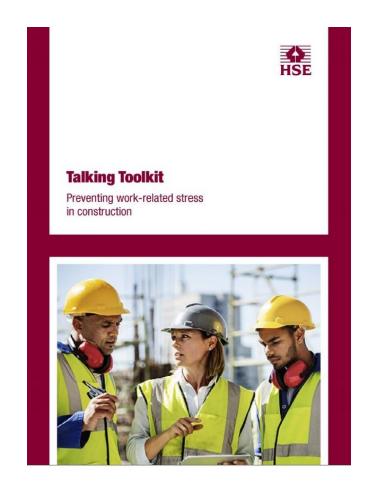
Twitter @H_S_E
Facebook @hsegovuk
LinkedIn health and safety executive











Thank you for listening and any questions?





Quiz Master; Construction Edition



Please access Quiz Master; Construction Edition with this QR Code;

Alternatively, please visit https://app.sli.do/ and enter the following event code;



2594313



SEE YOU AT 11.20AM



Supported by:









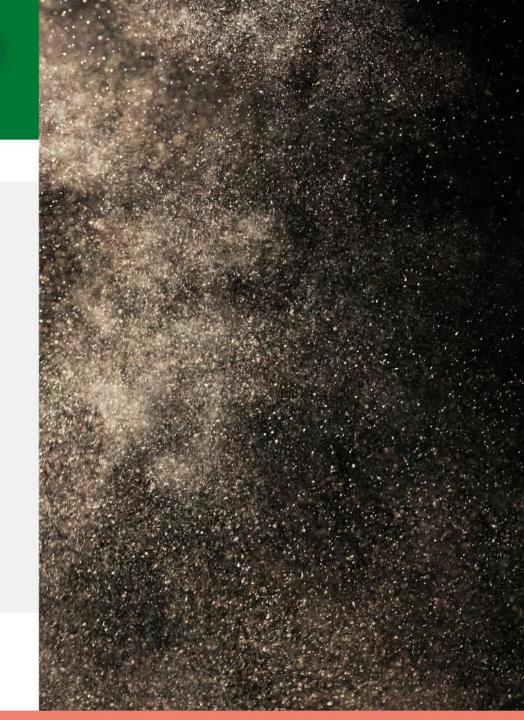


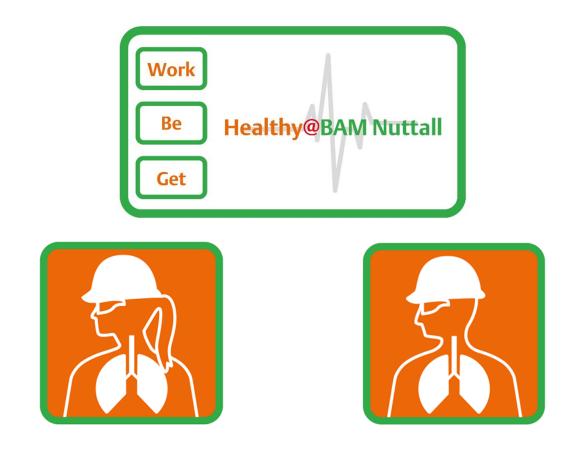
Construction Dust and 20 years of COSHH; Are We in Control?



Senior Occupational Health, and Safety Advisor BAM Nuttall







20 Years of CoSHH Are we in 'Control'?





Would we consider this as acceptable?

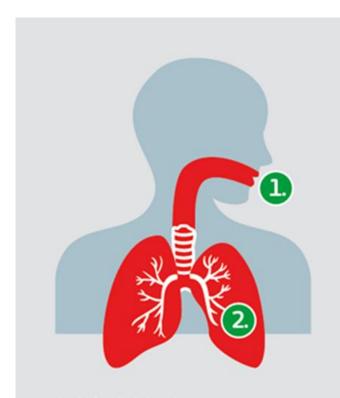








Would we react in the same way to these?

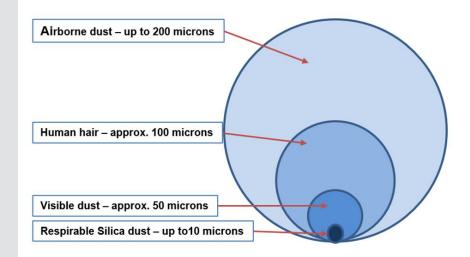


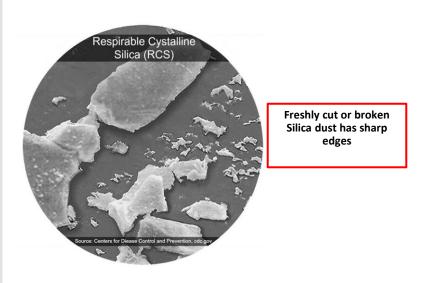
1. Inhalable dust

breathed in the nose or mouth; usually cleared via mucus.

2. Respirable dust

small enough to get deep into the lungs, in the alveoli.





1µm (micrometre) = 1 micron = 0.001mm



From the COVID-19 pandemic to the U.S. West Coast wildfires, some of the biggest threats now are also the most microscopic.

A particle needs to be 10 microns (µm) or less before it can be inhaled into your respiratory tract. But just how small are these specks?

Here's a look at the relative sizes of some familiar particles ¥

HUMAN HAIR 50-180µm > FOR SCALE

FINE BEACH SAND 90µm >

GRAIN OF SALT 60µm >

WHITE BLOOD CELL 25µm >

GRAIN OF POLLEN 15µm >

DUST PARTICLE (PM10) <10 mm >

RED BLOOD CELL 7-8 µm

RESPIRATORY DROPLETS 5-10µm >

DUST PARTICLE (PM2.5) 2.5 µm >

BACTERIUM 1-3µm >

WILDFIRE SMOKE 0.4-0.7µm v CORONAVIRUS 0.1-0.5µm

T4 BACTERIOPHAGE 0.225µm

ZIKA VIRUS 0.045µm >

such as dust or coronavirus.

Wildfire smoke can persist in the air for several days, and even months.

Pollen can trigger allergic reactions and hay fever—which 1 in 5 Americans experience every year.

The visibility limits for what the naked eye can see hovers around 10-40µm.

Respiratory droplets have the potential to carry smaller particles within them,



VISUAL



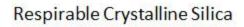




Comparison



5.0



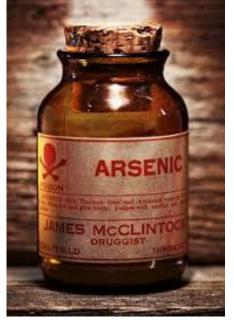
silica dust



Heath & Safety Executive picture

0.1

Arsenic



0.1

Lead (fume or dust)



EH 40

Milligrammes per cubic metre of air, time weighted average over 8 hours











Control of substances hazardous to health

The Control of Substances Hazardous to Health Regulations 2002 (as amended)





Construction dust

HSE Information sheet

Construction dust is not just a nuisance; it can seriously damage your health and some types can eventually even kill. Regularly breathing these dusts over a long time can therefore cause life-changing lung diseases.

This sheet tells employers what they need to know to prevent or adequately control construction dust risks. It also provides advice for safety representatives and workers.

Construction dust

This is a general term used to describe different dusts dust levels that you may find on a construction site. There are three main types:

- silica dust created when working on silica-containing materials like concrete, mortar and candstone (also known as respirable crystalline silica or RCS);
- wood dust created when working on softwood, and early death. hardwood and wood-based products like MDF and
- lower toxicity dusts created when working on iower traising utat: 0 recitate when waring on materialic containing viery little or no tillica. The most common include gypoum (eg in platetebaard). Interesting materials and adolesses imactone, material and adolesses.

Health risks

Anyone who breathes in these dusts should know the damage they can do to the lungs and airways.

The main dust-related diseases affecting construction

- lung cancer
 silicosis;
- chronic obstructive pulmonary disease (COPD);

Some lung disease, like advanced silicosis or asthma, can come on quite quickly.



However, most of these diseases take a long time to develop. Dust can build up in the lungs and harm them gradually over time. The effects are often not immediately obvious. Unfortunately, by the time it is noticed the total damage done may already be serious and life changing. It may mean permanent disability

Construction workers have a high risk of developing these diseases because many common construction construction workers are believed to die from exposure to silica dust every year. The amounts needed to cause this damage are not large. The largest amount of silica someone should be breathing in a day after using the right controls is shown below next to the penny



silica dust

compared to a penny



Health and Safety Executive

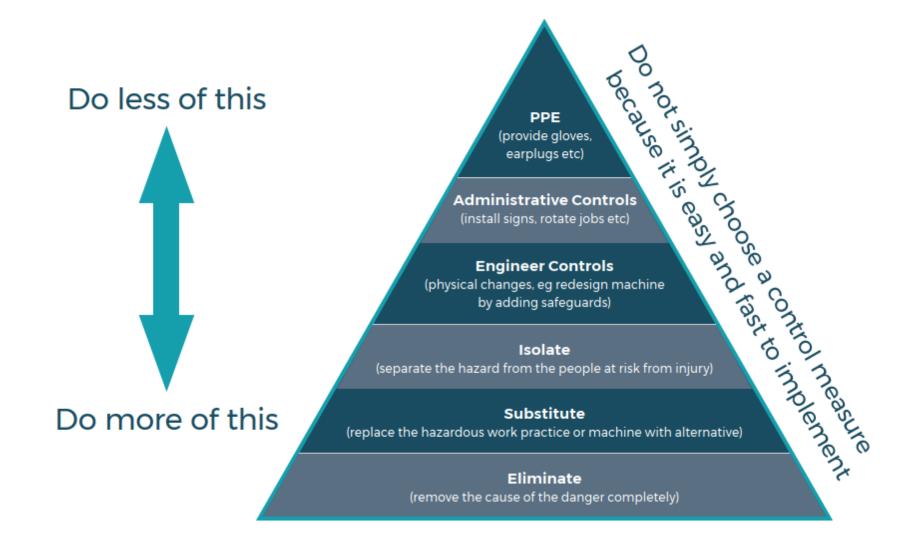
Construction Dust: Inspection and Enforcement Guidance

Open Government status

Fully Open

Target audience

FOD Construction Inspectors (Bands 0-4) SG Specialist (Occupational Hygiene) Inspectors (Bands 0-3)



Containment enclosures and

extract unita







Maxi enclosure

Cutting enclosure

Construction enclosure



Dust extraction





Dust extraction & negative pressure





























BAM Nuttall management system Safety form

SFXXX Tight fitting RPE Permit

Contract name:		Contract no:		
Date:		Permit no:		
As a result of risk use of a tight fittir deemed appropria activity:		(attach RA, COSHH assessment an	d detail engineering	controls)
At location(s):				
Testing, Suitabilit	y and Duration: If the	e answer is 'No' to any question – t	ne permit cannot b	e issued
The wearer is free from pre-existing medical condition affecting their breathing?				No
Evidence of recent face fit testing for make and model (& size) proposed?				No
The wearer is clean shaven in the area of the mask seal? (NOTE)				No
The task will require continuous wearing for less than 1 hour?				No
The tight fitting RPE is compatible with other PPE? (E.g. eye protection)				No
Details of individu	ual who will wear the	tight fitting RPE	•	•
Name:				
Employer:				
		Manufacturer / make		
Type of tight fitting	RPE to be used:	Model (& size) (from face fit test cer	t.)	
		Filter type (from CoSHH assessmer		

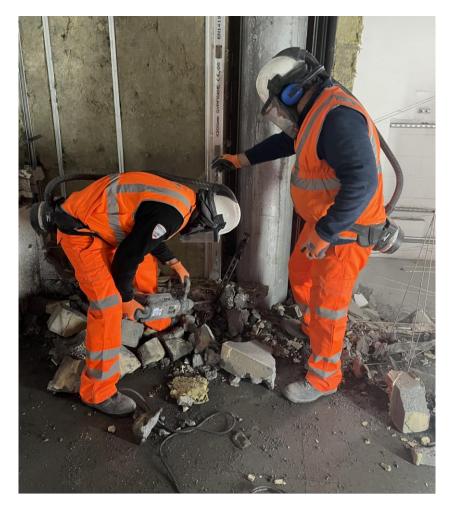
Permit Validity – can only be issued for single shift where clean shaven need has been established (NOTE)							
Date & time of issue:	Date		Time				
On behalf of BAM Nuttall by:	Print		Sign				
Expiry date	Expiry time						
Receipt of Permit							
RPE wearer	Print		Sign				
Task supervisor	Print		Sign				
Date							

Risk Assessment* <u>RPE selector tool - Healthy Working Lives</u> OR process within HSG 53 Section 3 NOTE – H&S legislation cannot be used to require an individual to be clean shaven.

Permits are to be numbered consecutively.
 Copies of completed permits are to be filled.

Date of current issue: 170119

Page 1 of 1





Engineering controls















Engineering controls

















Engineering controls















Silica - the next asbestos?



This is not an official publication of the House of Commons or the House of Lords. If has not been approved by either House or its committees, all-Parity Parliamentary Groups are informal groups of Members of both Houses with a common interest in particular issues. The Views expressed in this report are those of the Group.

For people, not profit

All Party Parliamentary Group For Respiratory Health Report published Feb 2020 Revised January 2023

APPG Report

Improving Silicosis
Outcomes in the UK





Tackling MSDs Head On



Head of Health and Safety Europe Laing O' Rourke







Tackling Occupational III Health through MMC

George Mosey Head of Health & Safety, Europe

Traditional construction

- Uncontrolled noise levels, defaulting to poor attenuation & PPE
- Poor air quality and airborne particulates / dust
- Poor mechanisation increases manual handling, MSD's, HAVS and RSI exposure
- Reduced cleanliness resulting in risk of contamination
- Increased confined space / restricted working, leading to poor ergonomics
- Exposure to UV & extremes of temperature
- Mental ill health and work related stress



- In 2021 the HSE reported 74,000 construction workers continued to suffer from work-related ill health.
- Of these 54% related to Musculoskeletal disorders, 27% related to stress, depression or anxiety and 19% other conditions.
- There were 39 fatalities; around 50% of these were from falls from height.

Insanity is doing the same thing, over and over again, but expecting different results.....

We need to **rethink** Construction...





Modern Methods of Construction (MMC)

"Modern Methods of Construction" (MMC) is a wide term, embracing a range of offsite manufacturing techniques that provide alternatives to traditional building methodologies.

MMC can range from whole assets being constructed from factory-built volumetric modules, through to the use of innovative techniques for laying concrete and installing finishes".

NHBC Foundation – MMC 'Who's doing what'

Design for Manufacture and Assembly (DfMA) – 'off-site'

70:60:30

QUALITY

70% of components are manufactured offsite

PRODUCTIVITY

60% reduction in required staff and workforce on site

CERTAINTY

30% improvement in schedule

Deployable volumetric products







Lattice Slabs



Hollow core Slabs



Precast Columns



Precast Twin wall



Precast Solid wall



Precast Stairs



Service Cupboards



Modular Distribution



Plant Skids



Energy Centres



Modular Wiring



Air Handling Units



Pipework Spools



Bathroom Pods



Modular Lifts



Single Skin Facades



Unitised Facades



Smartwall



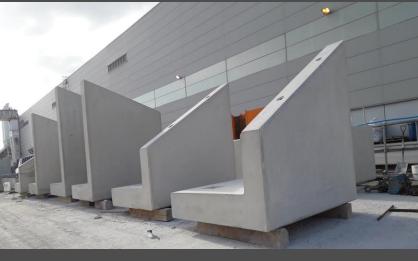
Kitchen Pods

Products























The compelling case for change in construction



Crossrail DfMA

H&S benefits

Tottenham Court Road – Insitu

- Installation team 57
- 'Tunnel' hours 36,882
- Safety incidents 3

'Traditionally manual'

Liverpool street - DfMA

- Installation team 7
- 'Tunnel' hours 2,973
- Safety incidents 0

'Mechanically enabled'





Offsite Manufacture and MMC



"Dynamic and unpredictable work environments"

Project Risk

"Static, controlled and consistent facilities"

Manufacture

Better protects the long term health of our people

Earlier 'Engineered Safety'

- A 'manufacturing mindset' demands earlier decision making
- Where we can Engineer out risk and Engineer in health



Occupational Health benefits from MMC

NOISE

Reduced noise exposure through engineered acoustic control measures for work process

MANUAL HANDLING

Reduction in manual handling & associated MSD's through the mechanisation of work processes

ERGONOMICS

Improved work environment reduces RSI through engineered production lines & ergonomic workstations



RESPIRATORY

Reduced respiratory risks through the reduction in cutting / drilling & the use of on tool extraction & control of welding operations through the use of LEV

HAND-ARM VIBRATION

Reduced vibration exposure through the reduction in cutting / drilling & the use of engineered solutions that eliminate repetitive tasks

ENVIRONMENT

Reduction in UV & extreme temperature exposure by working in a thermally controlled environment

A manufacturing environment

- Standardised components improves handling, access and erection practices
- Delineation of work areas improves logistics and ergonomic working
- Job rotation minimises repetition of tasks, while developing a multi-skilled workforce
- Exclusive mechanical handling of materials
- Local workforce with flexible shift patterns
- Enhanced welfare facilities





Our vision for supporting our people

35

•

46

: 50/50

Hours per week

Weeks per year

Gender balance

2030

Sustainable and diverse workforce, locally employed with first-class wellbeing support.

Supporting skills advancement from 'Trades to Technicians'.

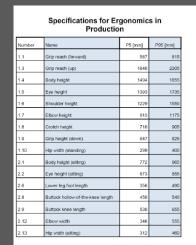
Kinematics simulation

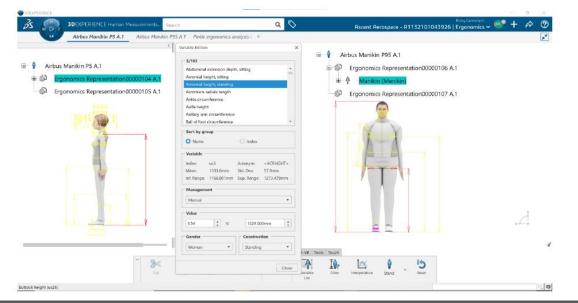
Ergonomic audits – Rapid upper limb assessments

- Used to identify Ergonomic risk factors associated with MSD's
- Measures the amount of risk among workers
- Can be use to reduce risk of injury around repetitive site tasks
- Reduces time lost through work related injuries
- Borrowed from Manufacturing environments











Proof of concept ergonomic assessment of Smartwall installation on The Grange Hospital design

How can we collectively accelerate our experience of MMC to realise the significant H&S benefits?

THE POWER OF EXPERIENCE

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Implementing Best Practice On Site; A Contractor's Perspective



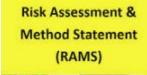
Group Health and Safety Manager
Ogilvie Group













HSE Health & Safety Executive	Vibration magnitude m/s² r.m.s.	Exposure points per hour		reach EAV /s² A (8) minutes		each ELV A (8) minutes	dur	osure ation minutes	Partial exposure m/s² A(8)	Partial exposure points
Tool or process 1										
Tool or process 2										
Tool or process 3										
Tool or process 4										
Tool or process 5										
Tool or process 6										
instructions for use. Enter witnition magnitudes and exposure durations in the white areas.								Daily exposure m/s² A(8)	Total exposure points	
To calculate, press			ursor to a di	ifferent cell.						
The results are disp										
To clear all cells, cli	ck on the Resi	et' button.								Reset







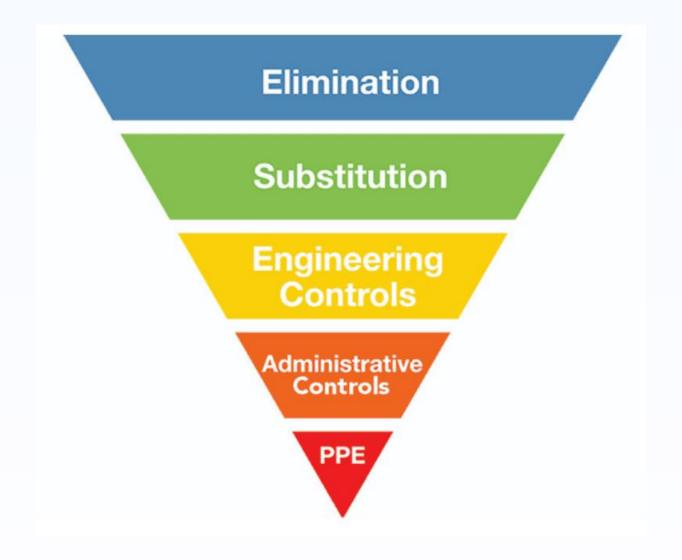








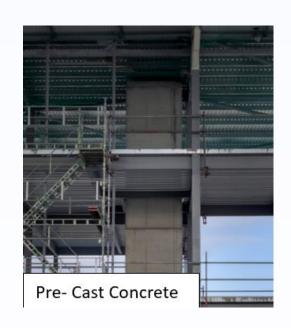








Elimination/ Substitution?









Substitution/Engineering Controls?



Selecting the lightest block that meets performance criteria for the design

440mm x 215mm x 100mm (4" Block) – Weights all usually less than 20kg 440mm x 215mm x 140mm (6" Block) – Weights range from 19kg – 28kg due to strength/ density/ sound/ thermal/ fire requirements.

Brand Name	Dimensions	Compressive Strength	Density Type	Weight	Cost
AI 1862	440 x 215 x 140mm	7.3 N	Medium	21.1 KG	£6.00
AI 1764	440 x 215 x 140mm	7.3 N	Dense	26.5 KG	£2.90



Substitution/Engineering Controls? Cement Mortar/ Mixing

















Elimination/ Substitution





Design out the need to cut by using dimensions that suit standard block sizes and half block sizes



Block Splitters





GUIDE TO VIBRATION AND NOISE





Noise Control

Eliminate – Use Block Splitter?

Control Measures









Vibration Exposure Control

Eliminate – Use Block Splitter?

Control Measures







Challenges

- Challenge health issues in the same manner as we do with obvious safety breaches
- ➤ Big improvements required at design stages to eliminate the exposure to health risks
- ➤ Around 340,000 construction small/ medium enterprises and 1.4 million construction related workers in GB
- **➤** How many others are actually out there?
- > What standards are they working to and how can this be improved?



What do YOU think?



How do we improve health control buy in from smaller contractors who are limited by cost?

How do we ensure that clients are factoring health investment into their tendering process?

How do contractors ensure a minimum health standard is in place on site?



Your Digital Resource Pack will be emailed to you after the event

However, if you have any unanswered questions, please contact us at; marketing@rvtgroup.co.uk and we will ensure it gets to the right person





THANK YOU FOR ATTENDING













