



HEALTH & Safety

Approximately 13,000 workers died from work related disease in 2021

99% Health

133 workers died in accidents at work during the same year

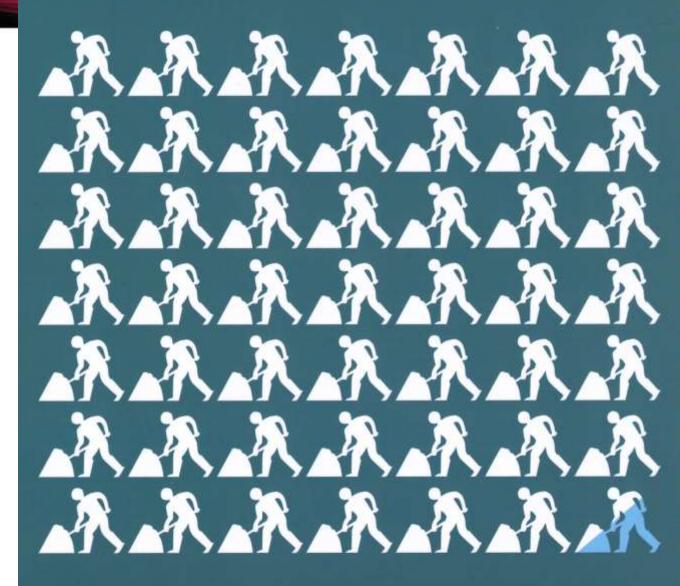
1% Safety





99% health

Approx 13,000 died from work related disease





What's The Problem with Buses ?

Seated 78

Standing 5 (downstairs only)

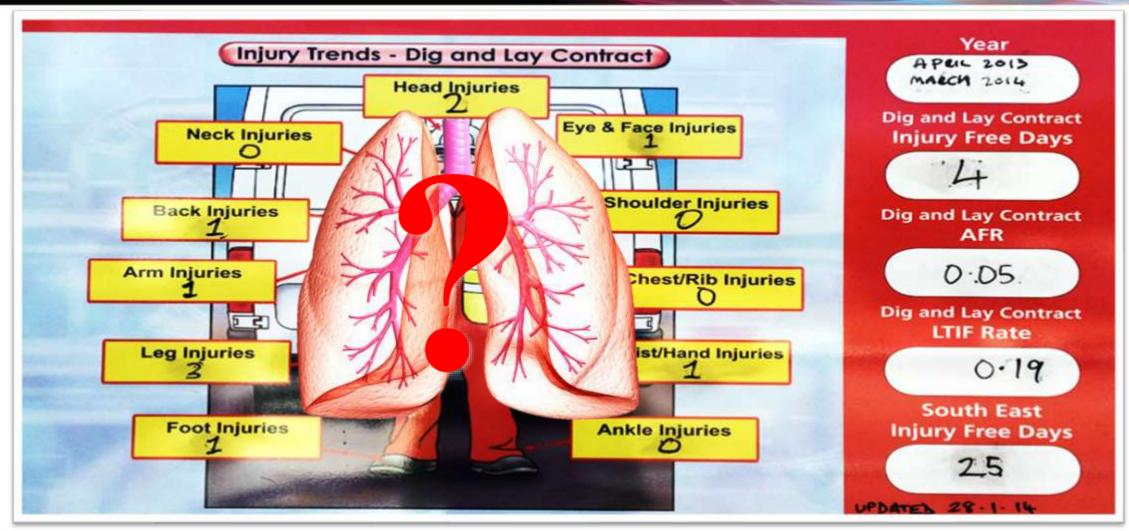
x4 Buses = 332 Passengers







Reporting Injuries







Exposures

Working conditions can lead to the following exposures:

- Silica dust
- Wood dust
- Engineered wood dust
- Diesel exhaust fumes
- Asbestos
- Welding fume
- Solvents
- Cleaning up







The Effects

Inhalable dust

Larger sized dust particles that you can generally see with the naked eye.

These dusts reach the upper sections of your lung.







The Effects

Inhalable dust

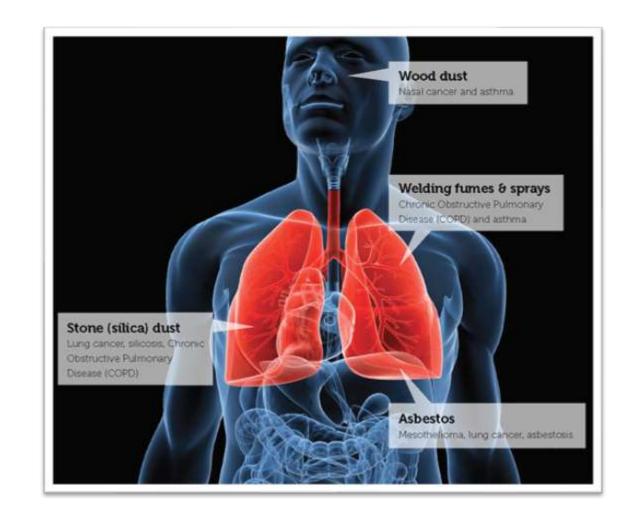
Larger sized dust particles that you can generally see with the naked eye.

These dusts reach the upper sections of your lung.

Respirable dust

Smaller sized dust particles that can be invisible to the naked eye.

This gets trapped in the lower sections of your lung.







The Effects of Silica – Worksafe BC







The Effects

Lung cancers

Silicosis

COPD (Chronic Obstructive Pulmonary Disease)

Asthma





Silica Dust – Exposure Limits



Daily Maximum Exposure Limit





The Effects

Breathing in hazardous substances can also cause diseases elsewhere in the body...

Nervous system disorders

Bladder cancer



Damage to reproductive system





The COVID Legacy — Unacceptable!







Face coverings like these do **NOT** provide protection against Silica dust.

It is important to switch to an Adequate and Suitable respirator when carrying out hazardous tasks.





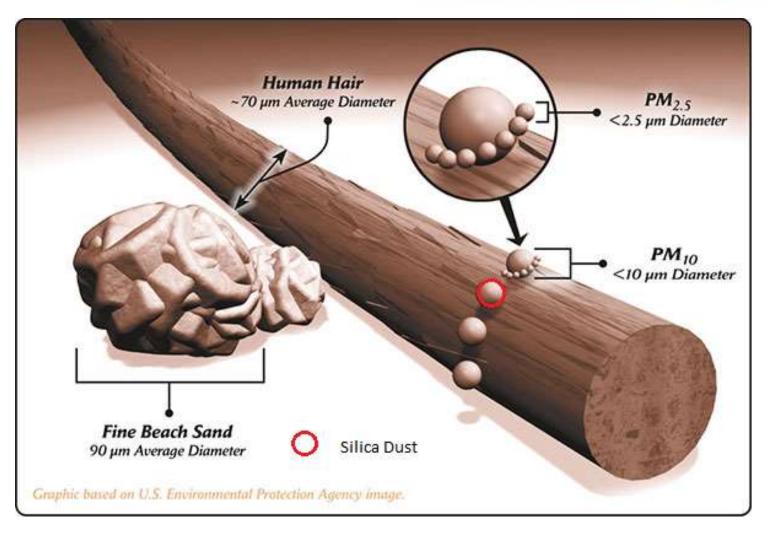
Tight Fitting Respirators







Silica Dust- How small are the particles?







What is clean shaven? The Definition.

"unshaven means hair which has not been shaved within the previous 8 hour period prior to the work shift" HSE – RR1052

http://www.hse.gov.uk/research/rrpdf/rr1052.pdf





The Effects of Facial Hair On Face Fit Testing







Face Fit Testing – Qualitative Method

- Reliant on taste of a bitter or sweet tasting solution
- No Eating or Drinking 30 mins prior to test
- Straight Fit or No Fit result
- Reliant on trust
- Consists of 7 Exercise designed to stress Seal
- Half Mask only





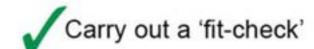


Face Fit Testing



For FILTERING FACEPIECE (FFP) (disposable mask)

- Clean shaven at start of your shift
- Always check the fit before every use:
 - fit around the nose/nose clip where applicable
 - · fit around the chin
 - check the position of straps







Face Fit Testing



For HALF-FACE mask

- Clean shaven at start of your shift
- Always check the fit before every use:
 - fit around the nose
 - fit around the chin
 - check the position of straps
- ✓ Carry out a 'fit-check'





Disposable Filtering Face Pieces (FFP)









Half Mask

EN 143, Force®8 PressToCheck™











Silica Dust – Exposure Limits



Daily Maximum Exposure Limit





Silica Dust – Exposure Limits







JSP PPE Compatibility

Force®8 Half-Mask and EVO®VISTALens®











Facial Hair







Powered Air Systems (PAPR)







Powered Air Systems (PAPR)

EN 12941 Jetstream Constructor Kit



- •EVO®5 safety helmet complete with sealed polycarbonate visor
- •No Face Fit Required
- •Flexible hose
- PSL dust filters

Powered Air Systems

EN 12941, Powercap® Infinity® - All In One Protection





- •Conforms to EN 397, EN 12941:1998 + A2:2008 TH3P, EN 166.1.B and EN 352-3
- No Face Fit Required
- Head, respiratory, face and hearing protection
- •4 in 1 protection





PowerCap® Infinity® PAPR











