

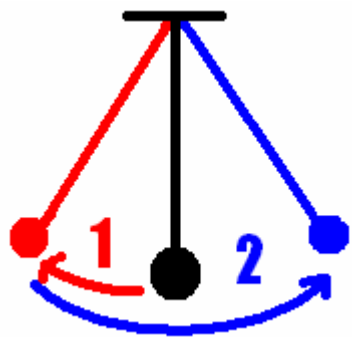
Industrial Hazards

Vibration



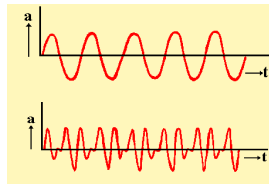
Every day, people are exposed to vibrations from many sources such as vehicles, vibrating machines and tools, so most people have a good idea of what vibration feels like, but not necessarily what vibration is.

Vibration can be defined as "an oscillatory motion of particles around their reference point of equilibrium in a solid body, a liquid or a gas." A person on a swing swinging back and forth can be an example of a vibration, illustrating the movement involved.

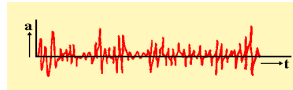


Types of Vibration:

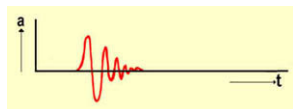
- Harmonic/Periodic (bad wheel balance)



- Random (bumpy road)



- Transient (hitting a pothole)



****In reality, all vibration experienced is a combination of all three types****



Noise

Noise is described as "any unwanted sound."

Noise Induced Hearing Loss (NIHL) or *industrial deafness* is a serious problem in industry. Continual exposure to loud noise can permanently damage your hearing.

Damage is calculated according to how often and how loud the noise exposure is.

Hearing Protection Devices should always be worn to minimise the chance of hearing damage.

FREQUENTLY ASKED QUESTIONS

Q What is a high level of noise?

A If you are 2 metres from someone and have to raise your voice to be heard the noise level needs to be assessed.

Q What if I don't wear hearing protectors all the time?

A Taking protectors off even for short periods can cancel their protective effect. To be fully protected, you need to wear protectors in any loud noise.

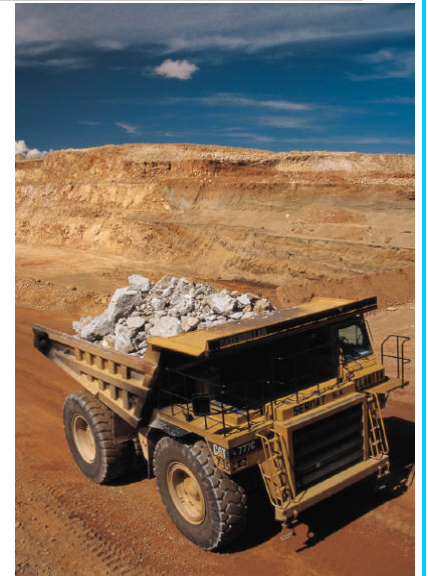
Q I won't be able to hear what people are saying if I wear hearing protectors.

A If your hearing is normal you will find it easier to understand what people are saying when you wear protectors because your ears are not overloaded. It is like wearing sunglasses - you see better if glare is reduced.

Q Is there any point in wearing hearing protectors if my hearing is already impaired?

A Your ears will go on being damaged as long as they are exposed to excessive noise. The hearing you have left is precious and should be protected.

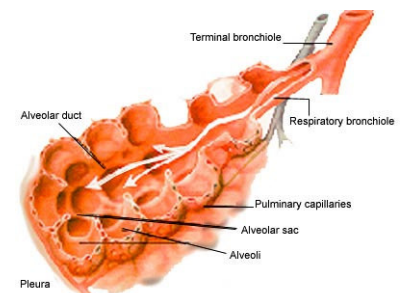
Dust



Dusts are everywhere. Whether dust causes a disease depends on the properties of the dust, the amount inhaled, the size of the particles and the efficiency of one's lungs at clearing themselves out.

Very fine, invisible, easily breathed in particles are most likely to cause disease.

Cilia (hairs) lining the nose to the lungs act as a trap to stop dust from harming us. They produce a mucus which dust settles on, the cilia acts as an escalator by constantly moving and depositing the mucus further up the lung passage to be spat out or swallowed harmlessly.



Occupational Health Technicians

are responsible for the measuring and monitoring of dust levels and to make sure that the exposure to people, both at work and in the community, is limited to the smallest amount possible.

Remember your PPE (face mask & glasses) when working near dust.

Chemicals



Chemicals can gain entry into our bodies in the following ways:

1. Inhalation – vapours, gases, dust or airborne particles
2. Absorption – toxic substances can seep through the skin and eyes
3. Ingestion – chemicals taken in through the mouth

Short term effects	Dermatitis or skin problems	Acute (short term)	Euphoria
 Single Exposure	A coughing spell	 Chronic (long term)	Poor concentration
	Watery eyes		Unsteady gait
	Headaches		Fits
	Drowsiness		Coma
	Poor coordination		
	Nausea		
Chronic Effects	Brain and Nervous System		
Repeated Exposure	Skin		Short term memory loss
	Liver		Reduced attention span
	Lungs and Respiratory System		Dementia
	Kidneys		Damage to nerves
	Fertility		

CHEMALERT SYSTEM



Green – Low Hazardous Chemical
Amber – Moderately Hazardous Chemical
Red – Highly Hazardous Chemical