

### **HEALTH & SAFETY**

# Dust and Fumes MSS05



#### **Reason for Talk**

Exposure to dust and fumes must be prevented or controlled.

### Why

Breathing in dust or fumes can lead to long-term health problems such as asthma.

#### Outline

This talk will cover, some sources and dangers from dust and fumes, and examples of precautions that can be taken.

### Some health risks from breathing in dust or fumes:

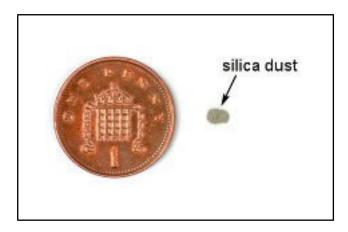
- Silica dust from cutting or scrabbling concrete can cause lung disease.
- Dust from cutting or sanding hardwood can cause nasal cancer.
- Asbestos dust can cause cancer of the lungs or lining of the chest cavity.
- Welding fumes can result in 'metal fume fever' which has flu like symptoms.
- Breathing in the fumes from solvents and paint can lead to nausea, drowsiness, headaches and, eventually unconsciousness and death in extreme cases.
- Investigations are continuing into possible harmful effects of breathing in dust from synthetic insulation materials such as fibreglass matting.

### Some sources of harmful dust and fumes

- Cutting, sanding and grinding of some materials with create harmful dust.
- Welding and gas cutting of metals can create harmful fumes.
- Heating metals such as lead will create harmful fumes.
- Work with old lead can expose you to lead oxide dust (white, powdery deposits) which is also harmful
- Burning off old lead-based paints can also create harmful fumes.
- Stripping out or other work involving fibrous insulation (such as asbestos or fibreglass insulation) can release harmful dust into the air.

### **Precautions**

Where it is possible, the job should be planned to eliminate harmful dust and fumes.



- If elimination is not possible, harmful dust and fumes must be controlled so that they are not breathed in by anyone.
- Some tools and plant are fitted with dust extraction and collection devices – if these are available, use them.
- Use portable extraction equipment with suitable HEPA filter if available.
- Avoid dry sweeping; damping down dust.
- It may be necessary for you to wear RPE to protect yourself from the effects of dust or fumes – make sure you know how to use it properly.
- Consider the effects that your work may be having on other people.

### Questions

- 1. How do you inform others that you will be creating harmful dust or fumes?
- 2. What work do you carry out that creates harmful dust or fumes?
- 3. What types of RPE are suitable for use with hazardous dust and fumes?

## **TOOLBOX TALKS**

THE WAY WE WORK