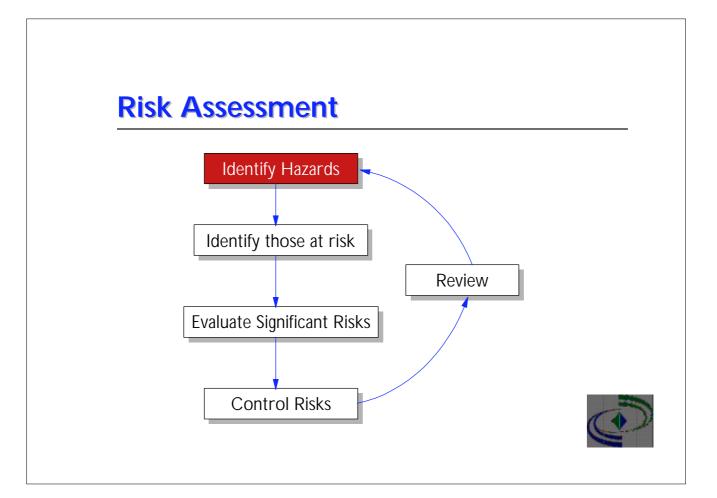


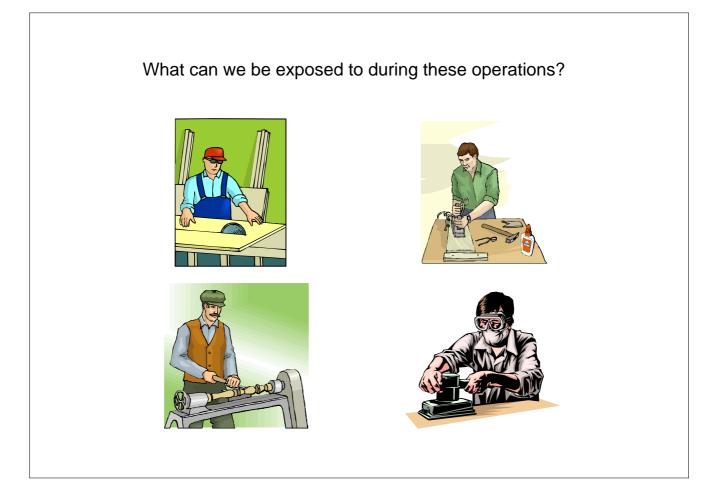
Hazard and Risk

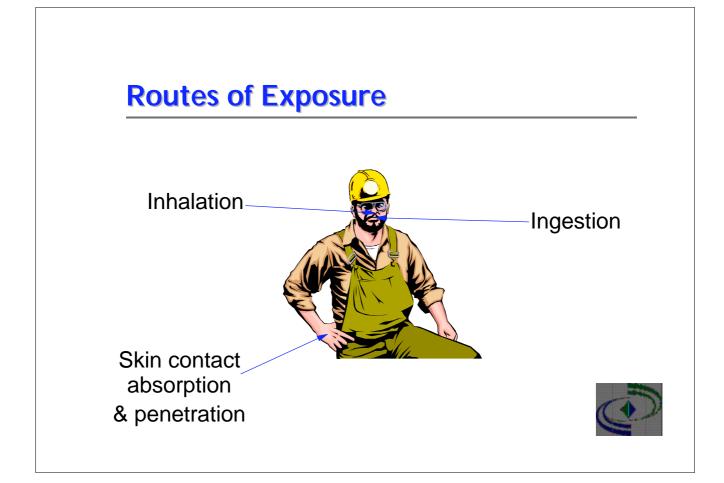
- Hazard
 - the potential of a substance to cause harm
- Risk
 - the liklihood harm will occur in practice

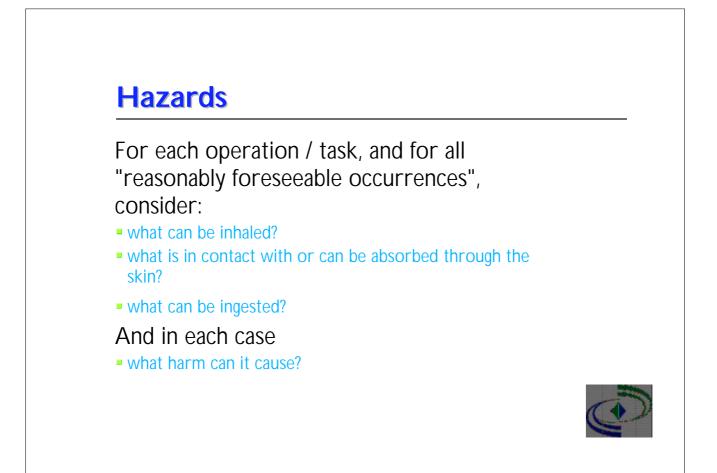


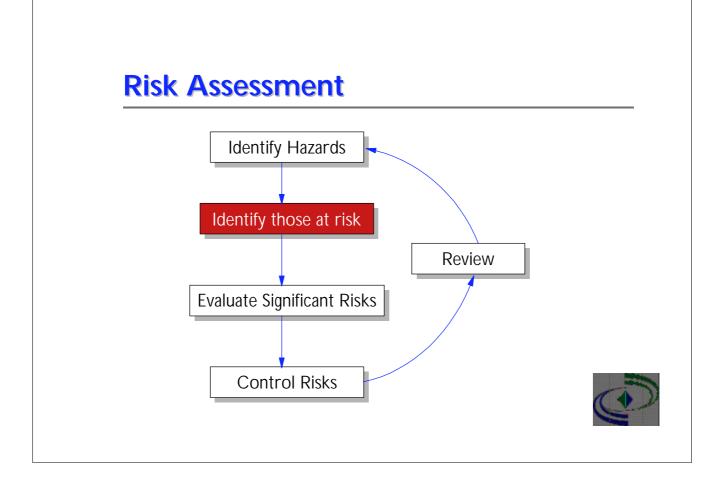


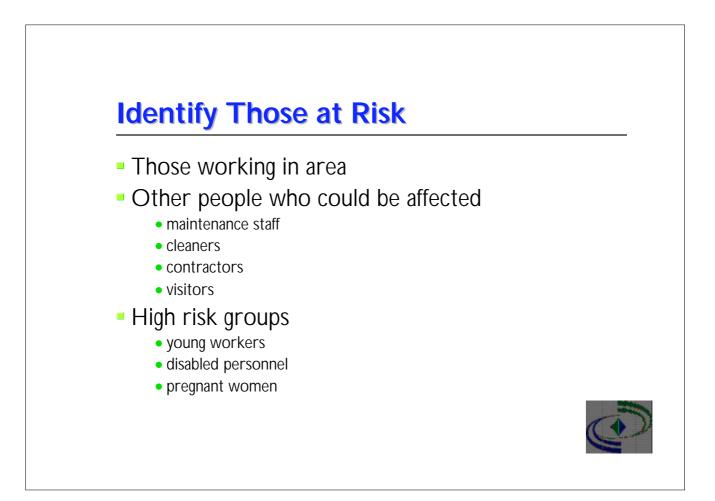


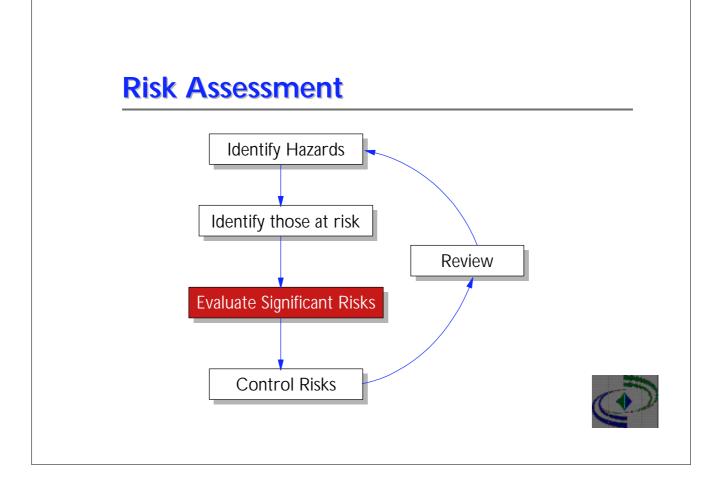


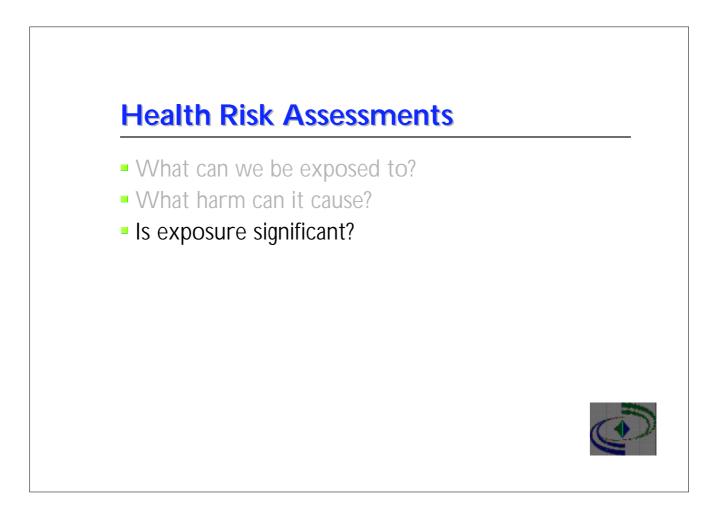


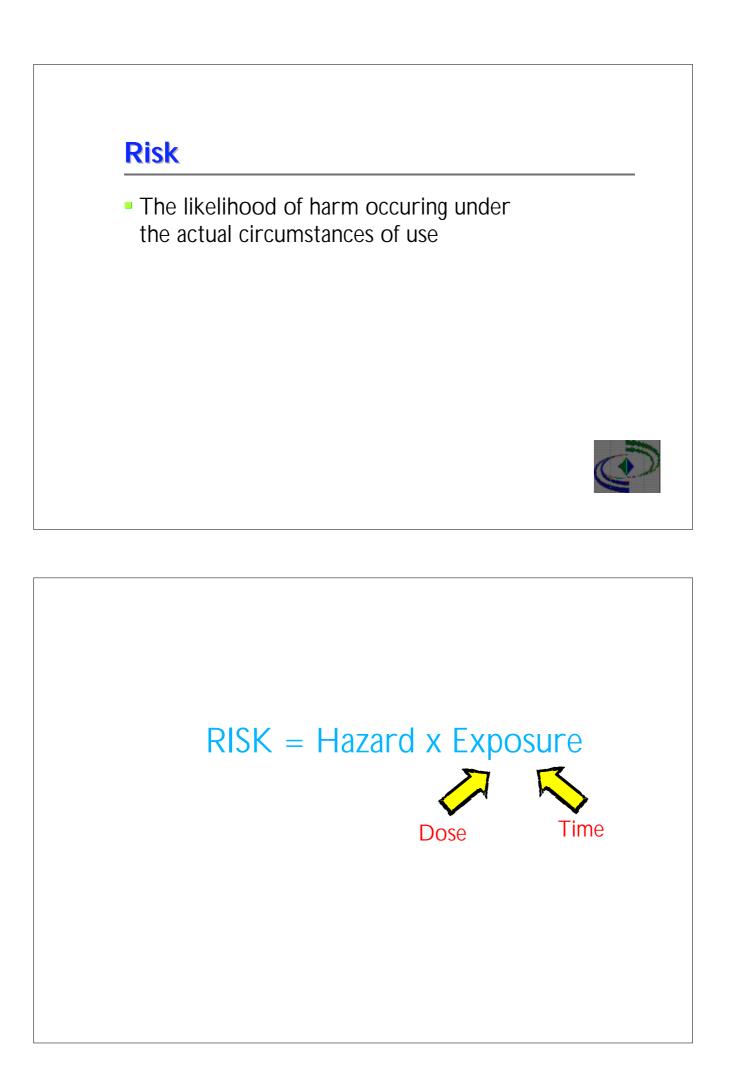








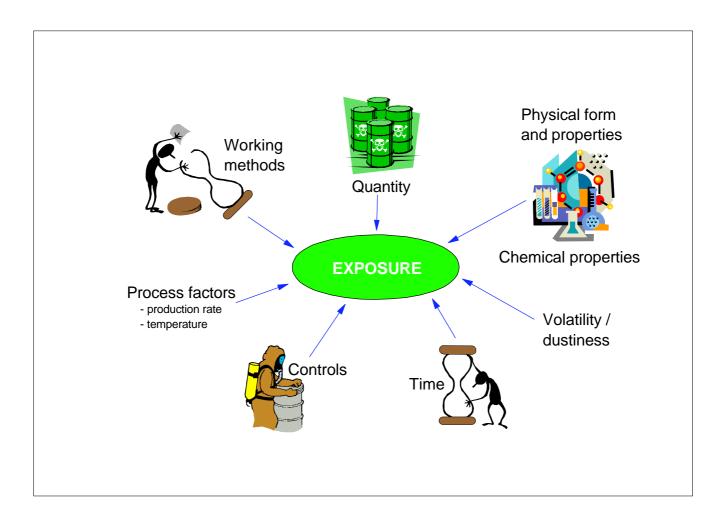


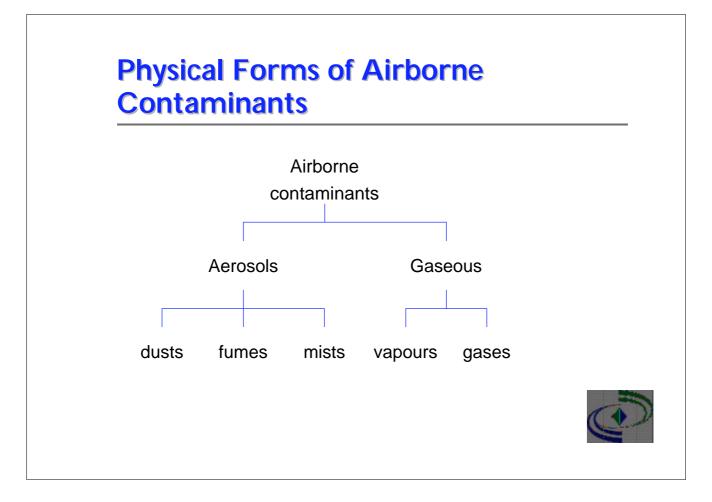


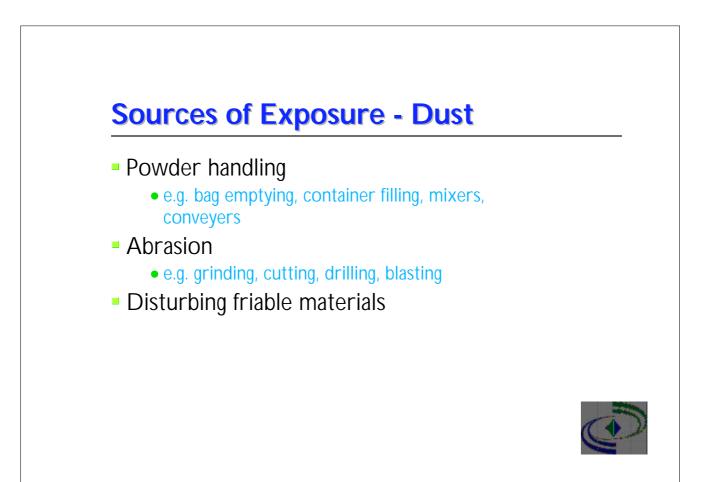
Is exposure significant?

Depends on amount and time

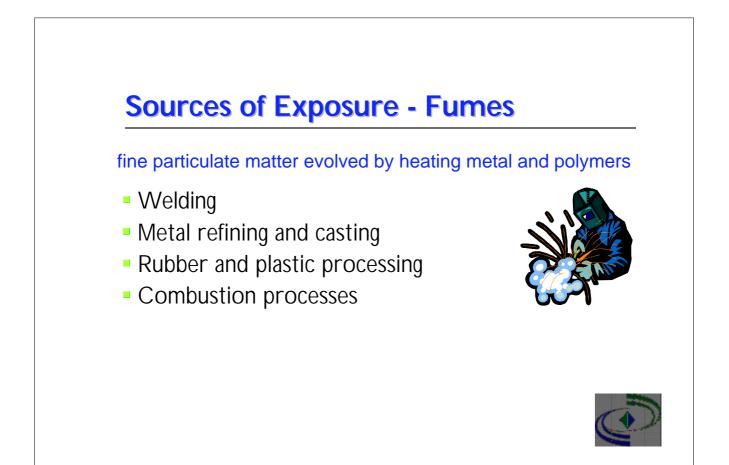
- amount
 - quantities used
 - concentration (for airborne substances)
 - amount in contact with skin
 - amount ingested
- time
 - period of exposure
 - frequency











Fume Exposures

- Temperature
- Other factors
 - welding current



Sources of Exposure - Mists

- Sprays
 - e.g. paint spraying, pesticides, pressure hosing
- Rotating machinery
 - e.g. oil cooled drilling and turning
- Gas carry-over
 - e.g. plating





Sources of Exposure - Vapours

Evolved by evaporation of a liquid

- Handling volatile solvents
 e.g. painting, adhesives, degreasing
- Heating less volatile substances

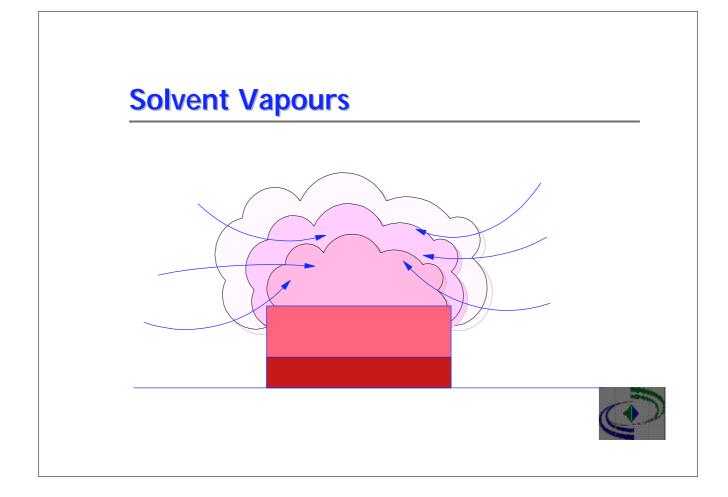


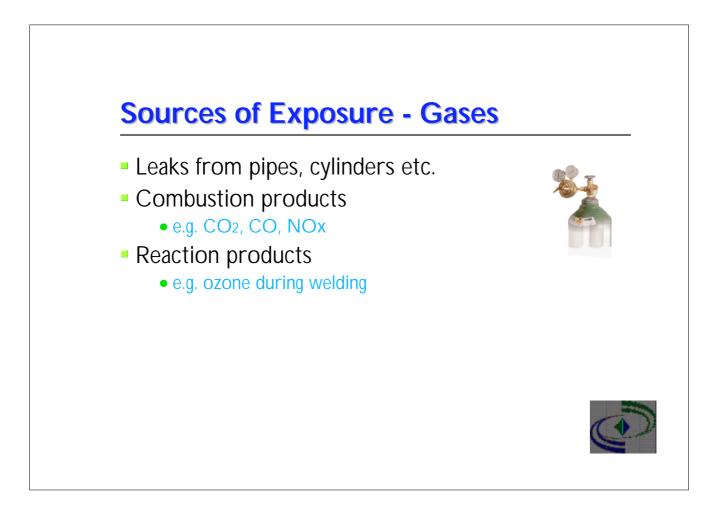


Vapour Exposures

- Volatility
- Temperature
- Vapour density







Skin Contact

- Direct effects on skin
- Penetration
- Absorption



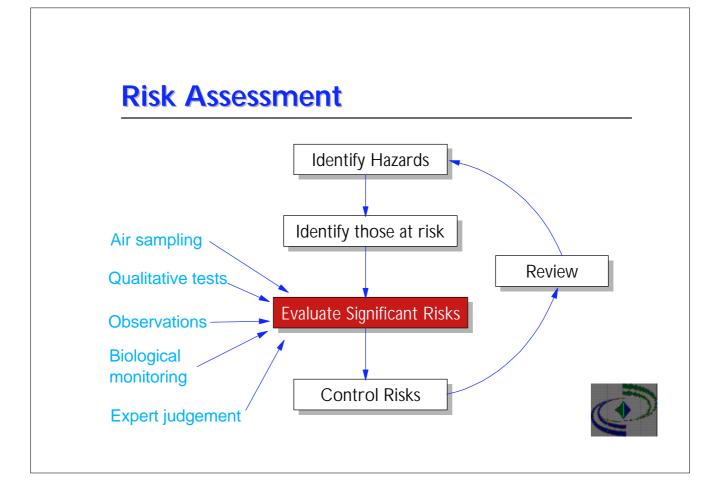


Ingestion

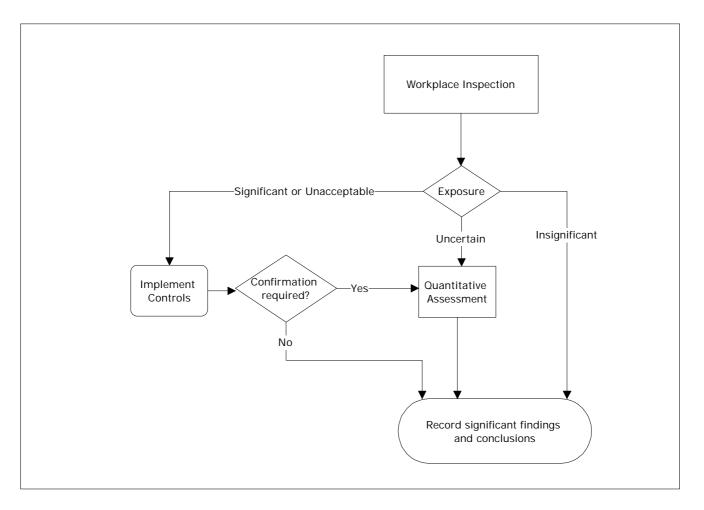
- Contaminated surfaces
- Foodstuffs
- Clothing
- Eating, drinking and smoking











Workplace Inspection

- Obtain information
- Observe process
- Simple qualitative tests
 - dust lamp
 - smoke tubes
 - indicator tubes etc.

Use experience and judgment to evaluate risks

Sampling During Assessments When unsure of exposure To check compliance with an OEL To check effectiveness of controls To determine degree of control required

