



Managers' Understanding of Health Issues

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Life in the “Old Days”



- **Happy to be working**
- **Long hours 7am to 7pm**
- **Risks of the Job**
- **Poor expectation of Health**
- **Poor understanding of risk**

2016 Workers



- **Higher health expectation**
- **Greater understanding of risk**
 - Acute Risk
 - Chronic Risk
- **Aim is to protect the physical and mental health of employees by ensuring their continual welfare in their workplace**

Health -v- Safety



- **Health -v- Safety**
- **Duty to manage both Health and Safety**
- **Most diseases caused by Work activities don't kill but cause years of suffering**
- **Greater cost to the economy**

So who is responsible?



- **Legislation**
 - Employer
 - Employee
- **Enforcement**
 - Self regulating
- **Driven by Insurance**
- **Contract v's Employees (risk transfer)**

Problem



- **Health risks may not be understood or a direct cause established**
- **Don't tend to have the same urgency as Safety Risk**
- **Slow motion**
- **Extent of occupational ill health may not be fully understood or the extent of injury known**

SAFETY

Health Hazards

Non-exhaustive

OHSS
CONSULTANTS

Ergonomics



- **Machinery design**
 - Adjustment of seating position
- **Maintenance**
 - Awkward body postures
- **Manual Handling**
 - Pulling lifting loads

Silica and lung Disease



- **General dust exposure**
- **Silica**
 - **Silicosis**
 - **Varying levels of silica in rock**
 - **Irreversible disease**
 - **Cancer**

Vibration



- **Hand arm vibration**
 - Hand tools
- **Whole body vibration**
 - Rough Terrain
 - Vehicles

Noise



- **Machinery**
 - **Crushers**
 - **Mills**
- **Impact noise**



Stress



- **Less people**
 - More work
 - Faster pace



Fumes



- **Diesel**
- **Bitumen**



Chemical Exposures



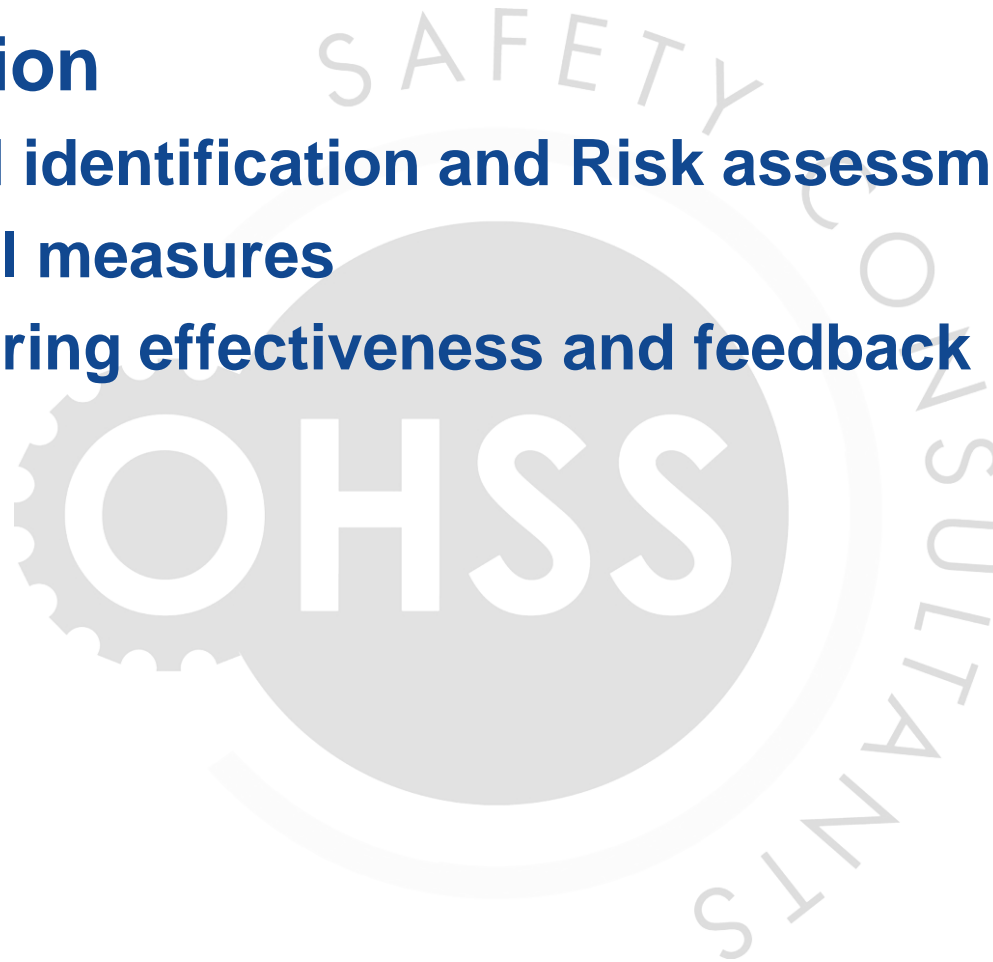
- **Additives**
- **Oils and Greases**
- **Waste chemicals**

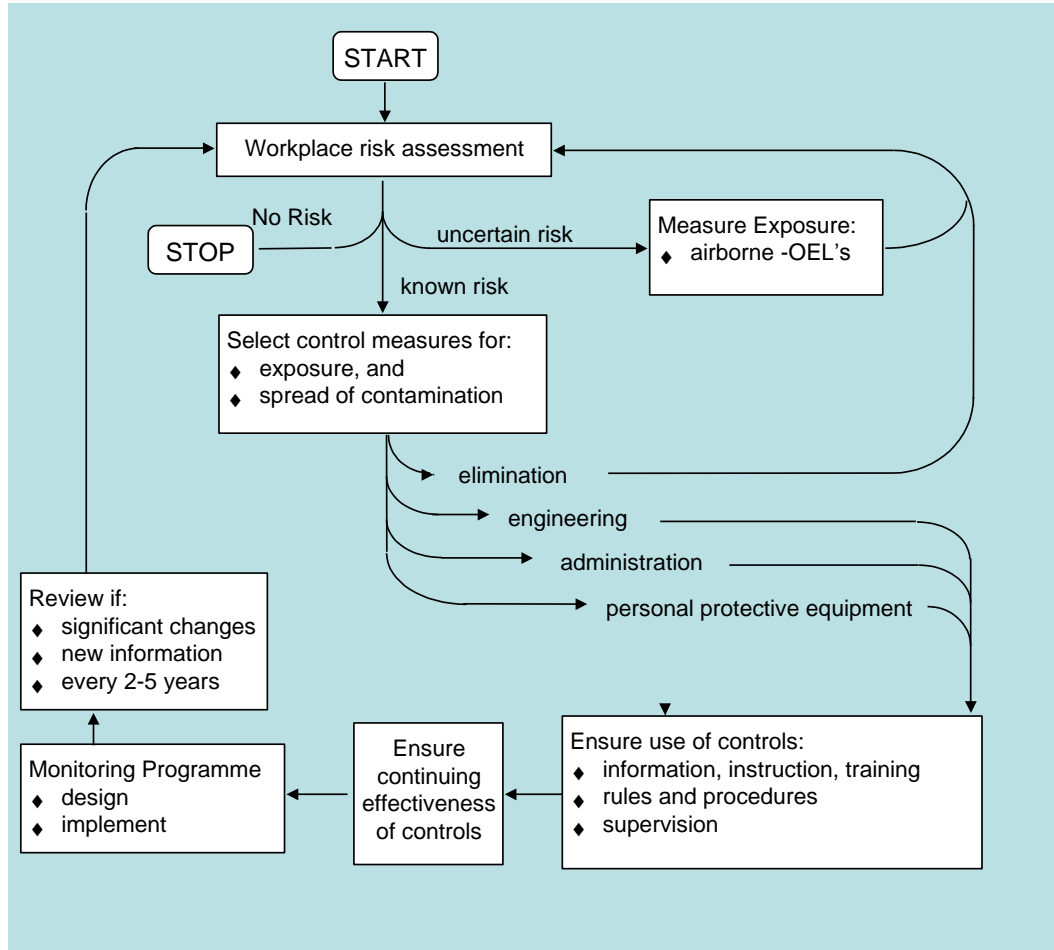


Managing the risk



- **Legislation**
 - Hazard identification and Risk assessment
 - Control measures
 - Monitoring effectiveness and feedback





Source: HSE/EPIC

Control Measures



- **Hierarchy of Control**
 - Elimination
 - Engineering
 - Administrative
 - Personal Protective Equipment
- **Dust**
 - Extraction
 - Water
 - Masks
- **Housekeeping**
 - Secondary exposures

Exposure Monitoring



- **Sampling and exposure monitoring should be undertaken to determine the extent of the hazard**
- **Compared against OELV (OEL's)**
- **Dusts**
- **Fumes**
- **Noise & Vibration**
- **Chemicals**

Skin Exposures



- **Dermatitis**
- **Oils and Greases**
- **Other chemicals**
- **Control**
 - PPE
 - Hand hygiene and care
- **Education of Workers**

Health Surveillance



- **“Where the results of risk assessment show it to be necessary”**
- **Identifiable disease**
- **What is Health Surveillance**
 - **A system to monitor for early signs of ill health so as to prevent further harm occurring**

Fear



- **“Opening up a can of worms”**
- **Past exposures**
- **Claims**
- **Not going to go away!!**

Summary



- **Health and Safety**
- **Identification of Health Hazards**
- **Risk Evaluation**
- **Control Measures**
- **Health Surveillance**
- **Questions**