



the **key** consultancy limited

In-company Training

Working Safely with Chemicals

Aims

This one day programme aims to give delegates an appreciation of the hazards present when working with substances hazardous to health and the actions necessary to reduce personal risk.

Objectives

At the end of the programme each delegate should be able to:

- Identify substances hazardous to health in use in their workplace
- Describe the main forms of chemical attack on the body and the main routes of entry to absorbing areas
- Explain the relevance of exposure limits
- Outline control strategies for hazardous substances, biological agents and carcinogens
- Make proper use of controls provided by their employer
- State the limitations of personal protective equipment

Programme Content

Introduction to regulations and their purpose
Definitions of hazardous substances. Classification of substances. Solids, liquids, dust, fume, vapour and gas

Suppliers' responsibilities and provision and purpose of data sheets

Route of entry of substances and significance of physical form of substance
Personal/individual differences
Acute/chronic effects - local and systemic

Ill health effects
Consider each target organ, use general examples of cause and effect
Carcinogens get a special treatment along with biological agents

Body defence mechanisms against chemicals and biological agents
Exposure limits and the relevance of 'sk' and 'sen' notations

General review of control options. Safe person/safe place issues
Main principles of dilution ventilation, main principles of local exhaust ventilation

Legal requirements for PPE. Selection criteria and problems in use

Monitoring strategies and main methods of monitoring for dust, gas and vapour

Health surveillance