



IOSH Laboratory Safety

HSW Ltd



Course Title: Laboratory Safety

This is a 2 day Course for Laboratory Managers, Senior Technicians, Laboratory Supervisors and Staff who wish to increase their knowledge of Health and Safety within Laboratories.

NOTE: This is not a risk assessment course.

TRAINER: David Oates CMIOSH CBiol MRSB

Aims: To facilitate learning and understanding of Laboratory Health and Safety:-

- Causes of Laboratory Accidents
- The overlap of safety disciplines
- The legislation that applies
- Exposure to chemicals
- Control Methods – LEV, PPE
- COSHH
- DSEAR (Overview)
- REACH (Overview)
- Biological Safety

Objectives: Delegates will understand the complex issues that are involved in Laboratory H&S:-

- Evaluate high risk activities
- Assess the possibility of exposure from substances
- Decide on appropriate risk controls
- Have an understanding on how COSHH, DSEAR and REACH legislation applies to laboratories and various approaches to practically implement the legislation
- Give delegates information to help with developing good safety practices in laboratories

Times Day 1	Teaching method	Topic/subject	Delegate activity
9.15 – 10:30 Introduction Are Laboratories Safe	Visual presentation Trainer-led or oral presentation Group discussion Question and answer	Laboratory accident examples	Visual Auditory
10:45 - 11:15 The Law and Legislation	Trainer-led or oral presentation Group discussion Question and answer	Look at HSE prosecutions. Overview of major legislation.	Visual Auditory
11:15 – 12:30 Chemicals and COSHH	Visual presentation Trainer-led or oral presentation Group discussion Question and answer	Information on Chemical hazards, COSHH legislation, and risk assessment. Looking at substance forms and interactions Occupational Health - Routes of Exposure.	Delegates in groups will assess an actual case of exposure
1:15 – 2:00 Chemical Classification CHIP, GHS and GLP	Visual presentation Trainer-led or oral presentation Question and answer	Old and New Signage. Requirements of an SDS.	Look at SDS's with different information as a delegate workshop
2:00 – 3:30 Risk Controls and LEV	Visual presentation Trainer-led or oral presentation Question and answer	How controls are used in the laboratory, what options are there. Use of LEV and design, the good and bad and its limitations.	Two short videos
3:45 – 4:00 PPE	Visual presentation Trainer-led or oral presentation Question and answer	Look at types of gloves, RPE and safety glasses.	Two short videos
4:00-4:45 Gases/ Laboratory Design /Equipment	Visual presentation Trainer-led or oral presentation Question and answer	Overview of other Laboratory hazards. General Discussion of laboratory safety issues and overview of the day.	Discussion

Times Day 2	Teaching method	Topic/subject	Delegate activity
9:15 - 10:30 Biohazards	Visual presentation Trainer-led or oral presentation Question and answer	Information on Biohazard classification and regulations. The difference in Biological safety cabinets Class I, II, III.	Video
10:45 – 11:30 Radioactivity	Visual presentation Trainer-led or oral presentation Question and answer	Introduction to the control of Radioactivity in Laboratories. Basic Control Principles.	None
11:30- 12:30 Dangerous Substances and Explosive Atmospheres	Visual presentation Trainer-led or oral presentation Question and answer	Overview of the legislation as applied to Laboratories.	Calculation for assessing possible explosive atmosphere
1:15 – 2:00 Nano Technology	Visual presentation Trainer-led or oral presentation Question and answer	Controls that can be used for this type of work.	None
2:00-2:45 Waste Disposal	Visual presentation Trainer-led or oral presentation Question and answer	Scenarios that the trainer has met.	None
2:45- 3:15 Overview and General Discussion	Visual presentation Trainer-led or oral presentation Group discussion Question and answer	A general chat about all that's been covered and an open session for delegates to raise any specific issues.	None

Delegate examination 3:15 until 4:45

The above programme may be subject to minor alterations.