



INTERACTIVE TRAINING SERIES – LABORATORY SAFETY TRAINING



MTBM Group Sdn. Bhd. (1600656-M)

Level 8, MCT Tower, Sky Park, One City, Jalan USJ 25/1, 47650 Subang Jaya, Selangor



+603 8022 8330



+603 8022 8201



info@mtbmgroup.com



mtbmgroup.com

Course Title: Interactive Training Series – Laboratory Safety Training

Course Validity: 1 Day

Validity: Not Applicable

HRD Corp Scheme: Claimable

INTRODUCTION:

This training provides participants with essential laboratory safety knowledge delivered through an engaging, interactive learning format. It covers chemical, biological, physical and ergonomic hazards commonly found in laboratories, safe handling procedures, emergency response, PPE requirements and good laboratory practices (GLP). Participants will learn using scenario-based activities, demonstrations and practical interactions to improve hazard awareness and strengthen safety culture within laboratory environments.

OBJECTIVE(S):

- Understand laboratory hazards and associated risks.
- Apply safe work practices and good laboratory behaviour.
- Handle chemicals, equipment and biological materials safely.
- Use PPE, engineering controls and safety equipment correctly.
- Respond effectively to laboratory emergencies and spills.
- Strengthen hazard identification and risk control skills.
- Promote a proactive safety culture within laboratory operations.

TARGET GROUP(S):

- Laboratory Technicians & Assistants
- Researchers, Scientists & Analysts
- Quality Assurance / Quality Control Personnel
- Students and Interns working in laboratories
- Supervisors & Lab Managers
- Anyone involved in laboratory operations

ENTRY REQUIREMENT(S):

- Able to read and communicate in Malay/English
- Basic laboratory understanding recommended

TOPIC(S):

1. Introduction to Laboratory Safety
2. Chemical, Biological & Physical Hazards
3. Safe Chemical Handling & Storage
4. Laboratory PPE, Safety Equipment & Engineering Controls
5. Good Laboratory Practices (GLP) & Housekeeping
6. Waste Management & Spill Control Procedures
7. Emergency Preparedness & Response
8. Interactive Scenarios, Demonstrations & Safety Drills

LIST OF REFERENCE BOOK(S):

- OSHA 1994 & OSHA (Amendment) Act 2022
- USECHH Regulations 2000
- DOSH Chemical Health Risk Assessment Guidelines
- Laboratory Safety Manual / GLP Guidelines
- Chemical Safety Data Sheets (SDS)

LIST OF TEACHING AID(S):

- LCD projector
- Chemical & PPE samples
- Spill kit demonstration items
- Laboratory equipment visuals
- Flip chart / whiteboard

METHODOLOGY(S):

- Interactive lecture
- Group discussion
- Hands-on demonstrations
- Scenario-based activities
- Safety drills

TRAINING SCHEDULE

1 Day

Time	Activity / Topic
8:30 am – 9:00 am	Registration & Introduction
9:00 am – 10:15 am	Topic 1: Introduction to Laboratory Safety
10:15 am – 10:30 am	Morning Tea Break
10:30 am – 12:30 pm	Topic 2–3: Lab Hazards, Chemical Handling & Storage
12:30 pm – 1:30 pm	Lunch Break
1:30 pm – 3:00 pm	Topic 4–5: PPE, Lab Safety Equipment & GLP
3:00 pm – 3:15 pm	Afternoon Tea Break
3:15 pm – 5:00 pm	Topic 6–8: Waste Management, Emergency Response & Interactive Exercises