

MANAGING HAZARDOUS MATERIALS: SPILLAGE HANDLING AND EMERGENCY RESPONSE



Date: 8th & 9th November 2025, Saturday & Sunday



Venue: Ensearch Office Time: 9:00am - 5:00pm



Trainer: ChM Dr Shanmuga Kittappa



**ChM Dr Shanmuga
Kittappa**



OVERVIEW

Handling hazardous material spillage is dangerous and risky. High-level competencies and expertise are required in managing spillages and related emergencies on site. This programme covers spillage management and emergency response at the workplace, in industries, laboratories, and other places where hazardous materials are present. The course covers regulatory requirements, risk assessment, and best practises for managing spillages and emergencies to protect human health, safety, and the environment. This training is specially designed by the subject matter expert to offer the participants experiences and enhance their skills in handling highly dangerous and toxic materials on site



OBJECTIVES

- To introduce the overall understanding of hazardous material management including chemicals, radioactive materials, scheduled waste, and dangerous substances
- To develop participants' competencies in managing and handling spillages includes control of exposure (OSH 1994)
- To develop knowledge and skills related to spill response principles, techniques for containment and clean-up,
- To increase competencies in managing emergencies and critical situations



COURSE FEE

- ✓ ENSEARCH Member = RM800
- ✓ Non Member = RM1000
- ✓ Individual Membership + Training = RM1050
- ✓ HRDC Claimable + Member = RM900
- ✓ HRDC Claimable + Non Member = RM1000
- ✓ HRDC Claimable + Individual Membership = RM1150



WHO SHOULD JOIN?

- Engineers and managers
- Environmental professional
- Chemist and laboratory technicians
- Schedules waste handler
- Competent person



SCAN HERE TO REGISTER



012-2828 910



po-training@ensearch.org



www.ensearch.org



TRAINER INFORMATION - CHM DR SHANMUGA KITTAPPA

ChM Dr. Shanmuga Kittappa leads Research and Innovation at CENVIRO, driving transformative projects in green material synthesis, waste valorisation, renewable energy, carbon capture, wastewater treatment, and other critical environmental initiatives. A professional chemist with over 20 years of experience across laboratory, operations, manufacturing, and academia, Dr. Shanmuga holds both a Doctorate and master's degree from the University of Malaya, which laid the foundation for his deep expertise in environmental chemistry and sustainable technologies. He further enhanced his global perspective by earning an Advanced Master's Certificate from Kyoto University and Tsinghua University, gaining recognition and respect across the industry. He is an active member of the Royal Society of Chemistry, with a particular focus on sustainability practices in chemical management and waste disposal. In addition, he is a certified ISO 14001 Lead Auditor and serves as a Technical Assessor for ISO 17025 accreditation for chemical laboratories under the Department of Standards Malaysia. Dr. Shanmuga is also a Certified Sustainability Practitioner (Chartered Management Institute, UK) and a Certified Lean Practitioner (British Standards Institution, UK – a Royal Charter body). He holds CePSWaM certification (Certified Environmental Professional in Scheduled Waste Management), appointed by Malaysia's Department of Environment. In academia, he contributes as an ELITE member of the Faculty of Engineering at the University of Malaya, reflecting his ongoing commitment to education, innovation, and research excellence.

TENTATIVE PROGRAMME

DAY 1

09.00 AM – 09.30 AM	OPENING <ul style="list-style-type: none">• INTRODUCTION• GROUND RULES AND TECHNICAL BRIEFING• ICE BREAKER
09.30 AM – 10.00 AM	PRE-ASSESSMENT
10.00 AM – 10.30 AM	MORNING BREAK
10.30 AM – 11.45 AM	INTRODUCTION TO HAZARDOUS MATERIAL <ul style="list-style-type: none">• ACTS AND REGULATIONS• OCCUPATIONAL SAFETY AND HEALTH ACT 1994• ATOMIC ENERGY LICENSING ACT 1984• ENVIRONMENTAL QUALITY ACT 1974
11.45 AM – 12.00 PM	SHORT BREAK
12.00 PM – 01.00 PM	RISK ASSESSMENT AND PREVENTION <ul style="list-style-type: none">• TYPES AND CLASSIFICATIONS• PACKAGING, LABELLING AND STORAGE• COSHH AND SDS
01.00 PM – 02.00 PM	LUNCH BREAK
02.00 PM – 03.00 PM	HAZARD IDENTIFICATIONS AND SPILL RESPONSE PLAN <ul style="list-style-type: none">• LOGISTICS AND HANDLING• IMPORT AND EXPORT OF HAZARDOUS MATERIALS• CUSTOMS AND HS CODE• SENSITIVE AND POISON ITEMS• TRANSBOUNDARY AND BASEL CONVENTION
03.00 PM – 03.30 PM	TEA BREAK
03.30 PM – 04.00 PM	DISCUSSION, Q AND A
04.00 PM – 05.00 PM	END OF SESSION

DAY 2

09.30 AM – 10.00 AM	MORNING BREAK
10.00 AM – 11.45 AM	SPILL RESPONSE AND PRINCIPLES <ul style="list-style-type: none">• INDUSTRIES• HOSPITALS• LABORATORIES
11.45 AM – 01.00 PM	EMERGENCY RESPONSE AND CLEAN-UP <ul style="list-style-type: none">• SMALL SPILLAGE LABORATORIES AND HOSPITALS• LARGE SPILLAGES- INDUSTRIES• EXPOSURE AND LIMITATIONS• DEMO AND VIDEO
01.00 PM – 02.00 PM	LUNCH BREAK
02.00 PM – 03.30 PM	EMERGENCY RESPONSE PLAN <ul style="list-style-type: none">• ACTION AND REPORTING• EMERGENCY RESPONSE PROCEDURE• RIGHT EQUIPMENT AND TOOLS• CASE STUDY AND ANALYSIS• DEMO AND VIDEO
03.30 PM – 04.00 PM	TEA BREAK
04.00 PM – 04.30 PM	DISCUSSION, Q AND A
04.30 PM – 05.00 PM	POST ASSESSMENT AND CERTIFICATE PRESENTATION
05.00 PM	CLOSING AND EVALUATION

