

Demonstrate & Apply Understanding of Cleaning Chemicals

Course Outline

SN	Topics / Activities	Duration
1	Relevant regulatory requirements for purchasing, handling, storage, use and disposal of cleaning chemicals <ul style="list-style-type: none"> • WSH Act • WSH (General Provisions) Regulations • WSH (Incident Reporting) Regulations • WSH (Risk Management) Regulations • Environmental Protection and Management Act • Environmental Protection and Management (Hazardous Substances) Regulations 	2 hrs
2	Types and uses of cleaning chemicals <ul style="list-style-type: none"> • Assess the use of cleaning chemicals • Effects of cleaning chemicals on various surfaces 	2 hrs
3	Common risks and hazards involved in environmental services industry <ul style="list-style-type: none"> • Identify the unsafe acts or conditions present in the work environment 	3 h
3	Safe handling of cleaning chemicals <ul style="list-style-type: none"> • Hazards associated with the use of cleaning chemicals • Risk Management for cleaning chemicals • Risk Assessment • Hierarchy of risk controls • Substitution (selection of safe chemicals) • Engineering controls <ul style="list-style-type: none"> ○ Barriers, transfer equipment • Administrative controls <ul style="list-style-type: none"> ○ Manage, access and interpret Safety Data Sheets (SDS) ○ Common chemical safety and hazard symbols and their meaning ○ Determine the quantity and types of the cleaning chemicals to be loaded into the container ○ Communicate work assignment to workers to ensure safe operations ○ Handling spills and other incidents ○ Signs ○ Information, supervision, instruction and training ○ Procedures relating to preparation of cleaning chemicals • PPE <ul style="list-style-type: none"> ○ Allocate and ensure proper usage of appropriate Personal Protective Equipment (PPE) to handle different types of cleaning chemicals 	6 hrs
4	Carry out WSH inspections for the safe handling of hazardous chemicals.	0.5 hr
5	Incident investigation and iReporting	1 hr

Learning activities will include group discussions and presentations, case studies, and role-play activities

Trainer's Profile

Dr Hia Hui Ching is an environmental consultant with an avid interest in environmental issues and healthy living. After graduating from Osaka University, Japan, she worked as a research scientist in A*STAR before deciding it was not her calling. Since 2011 Hui Ching has been an active advocate for Effective Microorganisms (EM) and their applications for the environment.

Ph.D. (Osaka University)

M.Engg Chemical Engineering (NUS)

B.Engg Chemical Engineering (NUS)

WDA Advanced Certificate in Training and Assessment (ACTA) (Full)