

Attachment 2

Training hours and syllabus of emergency responder retraining

I. Operations Level

Training Outline	Training Hours	
	Indoor	Hands-on
1. Introduction to domestic emergency response system and units; 2. Introduction to toxic and concerned chemical substance incident regulations; 3. Plan for defense skills (for example, dike and dam, choose and use of smoke control and foam) and PPE that can be adopted by operations level responders; and risks on the selection of PPE; 4. Introduction to cases of recent years.	2 hours	—
The wearing of PPE and implementation of decontamination procedures.	—	2 hours
4 hours in total	2 hours	2 hours

II. Technician Level

Training Outline	Training Hours	
	Indoor	Hands-on
1. Introduction to the incident assessment model, including hazard assessment at the site of the incident, hazard analysis, vulnerability analysis and risk analysis; 2. Explain possible causes and consequences of container damages and how to carry out a damage assessment; 3. Confirm the scale of incident and divide the region; 4. Introduction to Incident Action Plan (IAP); 5. Sand table exercises.	2 hours	—
1. Introduction to and selection of PPE; 2. The wearing and removal of technician-level PPE; and the implementation of operations; 3. Introduction to various decontamination methods, including emergency decontamination, large-scale decontamination and technical decontamination; 4. Be familiar with decontamination procedures and operations; 5. Evaluate the effectiveness of decontamination operations.	—	2 hours
1. Introduction to toxic and concerned chemical substance emergency response action plans and control technologies; 2. Introduction to common tank valves in the country;	—	4 hours

3. Practice of leak prevention and control technology for different containers and pipelines;		
4. Practice of tank movement.		
8 hours in total	2 hours	6 hours

III. Incident Commander Level

Training Outline	Training Hours	
	Indoor	Hands-on
1. Definition of the event; 2. Event analysis; 3. Confirm the response action targets and plan; 4. Decontamination action plan; 5. Implementation of the emergency response plan; 6. Records of safety report and summarized response actions taken on site; 7. Deactivate the incident.	1 hour	—
1. Emergency response system and reporting mechanisms; 2. Alarm release methods; 3. External supporting system activation methods; 4. Disaster response actions; 5. Personnel rescue and separation methods in disaster areas; 6. Restoration, cleanup and handling of the environment; 7. Evacuation methods.	2 hours	—
1. Guidelines for the Investigation and Handling of Toxic and Concerned Chemical Substance Incidents; 2. Post-disaster restoration and follow-up works; 3. Incident (accident) investigation.	1 hour	—
1. Scenarios and simulations of accidents; 2. Sand table exercises on the organization.	—	4 hours
8 hours in total	4 hours	4 hours

IV. Specialist Level

Training Outline	Training Hours	
	Indoor	Hands-on
1. Identify and authenticate the types, components and damage level of toxic and concerned chemical substance tanks, container and pipelines; 2. Introduction to cases of recent years.	1 hours	—
1. Explain the methods, procedures, risks, safety preventive measure and equipment that are obligatory for the implementation of loss and leakage control procedures in tank car incidents;	2 hours	4 hours

2. Practice of high-pressure tank accessories for leakage control;		
3. Practice of removal/ depletion techniques of high-pressure tank.		
8 hours in total	4 hours	4 hours