

Day One (1)
Course Schedule – Basic Chemical Spill Control Training

TIME	SUBJECT
9.00 – 9.15 am (15 min)	Participant Registration and Course Introduction
9.15 – 10.30 am (1 hour 15 min)	<p>Definition and Class of Hazardous Material</p> <ul style="list-style-type: none"> ▪ Chemical in Daily Life and Industry ▪ Pro and Con of Chemical ▪ Nine Classes of Chemical <ol style="list-style-type: none"> i. Class 1 – <i>Explosive</i> ii. Class 2 – <i>Gases</i> iii. Class 3 – <i>Flammable Liquid</i> iv. Class 4 – <i>Flammable Solid.</i> v. Class 5 – <i>Oxidizing Agent.</i> vi. Class 6 – <i>Poisonous and Infectious Substances.</i> vii. Class 7 – <i>Radioactive Material.</i> viii. Class 8 – <i>Corrosive.</i> ix. Class 9 – <i>Miscellaneous.</i>
10.30 – 10.45 am (15 min)	<i>Break</i>
10.45 – 1.00 pm (2 hour 15 min)	<p>Personal Protective Equipment</p> <ul style="list-style-type: none"> ▪ Level of Suit <ol style="list-style-type: none"> i. Level A ii. Level B iii. Level C iv. Level D ▪ Respiratory Protection <ol style="list-style-type: none"> i. Type of Breathing Apparatus ii. Choosing the Right BA ▪ Permeation and Degradation ▪ PPE Limitation <p>Personal Protective Equipment Donning Exercise</p>
1.00 – 2.00 pm (1 hour)	<i>Lunch</i>
2.00 – 2.45 pm (45 min)	<p>Recognition of Spill Chemical</p> <ul style="list-style-type: none"> ▪ NFPA 704 System ▪ HazChem Code ▪ European Schemer - ADR
2.45 – 3.30 pm (45 min)	<p>Emergency Response Guidebook (ERG)</p> <ul style="list-style-type: none"> ▪ Recognition of UN/NA and CAS Number ▪ Use of ERG ▪ Isolation Perimeter ▪ Evacuation Perimeter ▪ Evacuation / Shelter in Place
3.30 – 3.45 pm (15 min)	<i>Break</i>

3.45 – 5.00 pm
(1 hour 15 min)

Hazmat Entry Team – Confinement and Containment

- Absorbing, Adsorping
- Diversion
- Diking and Damming
- Retention
- Patching
- Up righting and Overpacking
- Neutralizing and Solidification
- Leaking from Piping
- Leak from Tank Truck and Assorted Container

Day Two (2)
Course Schedule – Basic Chemical Spill Control Training

TIME	SUBJECT
9.00 – 9.30 am (30 min)	Revision
9.30 – 10.30 am (1 hour)	Hazmat Chemistry <ul style="list-style-type: none"> ▪ Introduction to Matter and States of Matter ▪ Change of States – Solid, Liquid and Gas <ul style="list-style-type: none"> i. Freezing Point, Melting point, Boiling Point, ii. Vapour Pressure, Vapour Density iii. pH iv. Flashpoint, Fire Point, Self Ignition Point ▪ Lower/Upper Explosive Limit ▪ Flammability ▪ Fire Triangle
10.15 – 10.30 am (15 min)	<i>Break</i>
10.30 – 11.30 am (1 hour)	Hazmat Decon Team - Decontamination <ul style="list-style-type: none"> ▪ Primary and Secondary Contamination ▪ Setting up Decon Corridor ▪ Decontamination <ul style="list-style-type: none"> i. Emergency Decontamination ii. Mass Decontamination iii. Hose Line Decontamination ▪ Decon Procedure for Personal and Equipment ▪ Selecting Decon Medium / Solution ▪ Decon Effectiveness Testing
11.30 – 12.00 pm (30 min)	Toxicology <ul style="list-style-type: none"> ▪ Route of Exposure and Dose and Exposure Limit ▪ Measuring Particles, Gases and Vapors ▪ Permissible Exposure Limit (PEL) ▪ Time Weighted Average (TWA) ▪ Short Term Exposure Limit (STEL) ▪ Immediate Danger to Life and Health (IDLH)
12.00 – 1.00 pm (1 hour)	Understand your company Hazardous Material <ul style="list-style-type: none"> ▪ MSDS ▪ Risk Factor and Most Probable Spill ▪ Chemical Reaction ▪ Possible Hazards ▪ Evacuation Plan – Route and Procedures Setting up your Hazmat Zones and Facilities <ul style="list-style-type: none"> ▪ Where are the Zones? ▪ Where are the facilities and tools? ▪ What is our current strength – list ▪ What support do we need? ▪ Area of Improvement

1.00 – 2.00 pm (1 hour)	<i>Lunch</i>
2.00 – 2.45 pm (45 min)	Hazmat Incident Command System <ul style="list-style-type: none"> ▪ Overview of Incident Command System ▪ Role and Responsibility of Incident Commander ▪ Essential Personnel ▪ Hazmat Branch and Its Organization Hierarch ▪ Team Member Communication
2.45 – 4.30 pm (1 hour 45 min)	Mock Drill – Scenario Based Learning <ul style="list-style-type: none"> ▪ Scenario Based Learning ▪ Debriefing
4.30 – 4.45 pm (15 min)	<i>Break</i>
4.45 – 5.15 pm (30 min)	Written Assessment
5.15 – 5.30 pm (15 min)	Course Evaluation and Closing