



Storage, Handling & Safe Use of Chemicals & Hazardous Materials

Introduction:

Emergency responders are those people who may be the first emergency personnel to arrive at hazardous material/waste incidents and are expected to take some evasive actions to protect the people or the environment. Most emergency responders are limited in their ability to perform aggressive actions due to lack of knowledge or training and lack of resources. Emergency response personnel must understand the Regulatory Information & Rules and how to stay within the boundaries delimited by these Rules. These rules include OSHA, 29 CFR, Part 1910.120, Hazardous Waste Operation and Emergency Response and NFPA 472 Standard for Professional Competence of Responders to Hazardous Materials Incidents.

A chemical spill incident is unlike other types of incidents in which emergency response personnel may be involved. Time is not as critical as at other incidents. Common sense must be applied at all times. Each incident response must be organized to develop a total plan of operation, including options to be exercised in the event of scene deterioration. Monitoring of clean-up contractors

requires basic knowledge of procedures and regulatory aspects to ensure that safe and professional clean-up activities are conducted. Many responses by emergency service organizations have been conducted in a shooting from the hip mode. Emergency response personnel are learning by their mistakes, but those mistakes can be very costly.

Who Should Attend?

Emergency Response Managers, Engineers, Officers, Personnel, Environmental Managers, Engineers, Officers, Personnel, Safety Managers, Engineers, Officers, Personnel, HSE Personnel

Course Objectives:

By the end of this course delegates will cover :

This course will cover incidents involving the common, everyday hazards that can be encountered in any industry at any time. The chemicals involved in these incidents may not be exotic, but they are equally deadly. The result of exposures to hazardous chemicals (both acute and chronic) will be detailed. The course will develop a clear understanding of the limitations of emergency responders at chemical incidents and also how these responders can function to their maximum ability within those limitations.

Further, the course will develop an appreciation among emergency response personnel that scene control cannot be effective with only incomplete facts about the material and conditions involved. To achieve a favorable outcome, emergency

response personnel must gather all pertinent information on the situation, evaluate that information using a multi-phase process and implement a plan in an organized safety-oriented program.

Course Outline:

- Awareness of Hazardous Materials & Wastes
- Classifications of Hazardous Materials
- Hazards of Chemical Incidents
- Shipping Configurations
- Resources Available to Emergency Response Personnel
- Respiratory Protection
- Protective Clothing
- Donning and Doffing Procedures for Protective Clothing
- Initial Decision Matrix
- Scene Considerations
- Environmental Health Considerations
- Medical Concerns
- Hazard Identification
- Recovery Equipment
- Confined-Space Entry Procedures
- Incident Pre-Planning
- Scene Mitigation