



HSE155

Handling Emergencies in Plant and Refineries

Course Introduction:

The course will outline the legal requirements set out in the United States in OSHA's Process Safety Management and the European Seveso Directive. Within these requirements the course expands and deals with the organizational structures, responsibilities and response preparedness necessary to successfully handle emergencies. The course will cover Internal Emergency Plans as well as External Emergency Plans and the necessities for liaison and alignment with Local and Government Authorities Plans.

In so far as actually handling emergencies the course looks at firefighting techniques for tank fires; furnace tube ruptures and furnace tube leaks; gas cloud dispersal; oil and chemical spill emergencies; and transportation – off site – accidents with hazardous substances.

Course Objectives:

Upon successful completion of this course, the delegates will be able to:

- Apply learnt knowledge on handling emergencies in plant and refineries
- Execute emergency plans by recognizing the legal and moral requirements and using the objectives and responsibility of planning the emergency
- Identify HAZOP and What-If in emergency plans
- Differentiate between internal and external emergency plans
- Determine the role of mutual aid, emergency control center, training and testing of emergency plans, working with the media, working with the public, firefighting techniques, tank fires and etc.

Who Should Attend?

This course is for those individuals involved in planning and/or handling emergencies in the refinery and would include safety officers, environmental response leaders, site incident controllers, site main controllers and the emergency services.

Course Outline:

Day 1:

Pre-Test

Emergency Plans

- Legal Requirements
- Moral Requirements
- Objectives of Emergency Plans
- Responsibility for Planning

Day 2:

Hazard Identification

- "HAZOP" and Emergency Plans
- "What If" and Emergency Plans

Day 3:

Internal Emergency Plans

- Scope of Plans
- Responsibilities and Organizational Structure
- Key Components
 - Initiation of Emergency plans
 - Response
 - Hazard Identification
 - Resources Available
 - Casualty Handling etc.
- Typical Onsite Emergency Plans in a Refinery and initial response
- Key personnel and their responsibilities
 - Site Incident Controllers
 - Site Main Controllers

Day 4:

External Emergency Plans

- Scope of Plans
- Responsibilities and Organizational Structure
- Key Components
 - Calling the emergency
 - Response
 - Hazard Identification
 - Resources available etc.
- Liaison with Local and Government Authorities
- Information to the Emergency services
- Emergency Services Response
 - Police

- Fire Brigade
- Ambulance Service
- Health Department
- Epidemiological follow up
- Environmental Response

Day 5:

- Mutual Aid
- Emergency Control Center
- Training and Testing of Emergency Plans
- Working with the Media
- Working with the Public
- Firefighting Techniques
- Tank fires
- Furnace Tube Rupture
- Furnace Tube Leak
- Gas fires
- Gas clouds
- Oil spills on land and water
- Chemical spills
- Transportation accidents of hazardous substances

Post Test

Course Certificate:

International Center for Training & Development (ICTD) will award an internationally recognized certificate(s) for each delegate on completion of training.

Course Methodology:

A variety of methodologies will be used during the course that includes:

- (30%) Based on Case Studies
- (30%) Techniques
- (30%) Role Play
- (10%) Concepts
- Pre-test and Post-test
- Variety of Learning Methods

- Lectures
- Case Studies and Self Questionnaires
- Group Work
- Discussion
- Presentation

Course Fees:

To be advised as per the course location. This rate includes participant's manual, Hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Course Timings:

Daily Course Timings:

08:00 - 08:20	Morning Coffee / Tea
08:20 - 10:00	First Session
10:00 - 10:20	Coffee / Tea / Snacks
10:20 - 12:20	Second Session
12:20 - 13:30	Lunch Break & Prayer Break
13:30 - 15:00	Last Session

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