



FLAMMABLE LIQUID INCIDENT MANAGEMENT IN A BULK STORAGE, PROCESSING AND TRANSPORT FACILITY COURSE (PETROCHEMICAL INCIDENT) TRAINING IN GERMANY/HOLLAND

Aim: The overall aim of this training is to equip participants with requisite knowledge and skills on safe, coordinated and effective management of incident involving flammable liquids in a bulk processing, storage and transportation facility.

Course Objectives

At the end of the course;

- a. Participants can be able to identify different classification of flammable liquids
- b. Identify various types of storage tanks and characteristics
- c. Define various component or units of petroleum processing facility
- d. Have knowledge of Oil well heads and principle of operations
- e. Discuss various types of incidents associated with flammable liquid e.g. leak, spill and fire
- f. Discuss various foam extinguishing agents and application
- g. Discuss SKAFT technology, principle and applications and its effectiveness in 3D flammable liquid fires.
- h. Personal safety and hazard associated with incidents involving flammable liquid
- i. Identify hazardous chemical common with petrochemical processing facility
- j. Discuss fire protection and prevention technique in flammable liquid bulk storage, processing and transport facility.
- k. Discuss and understand Incident Management System and Standard Operating guidelines for Hazardous materials.
- l. Firefighting of Fires involving Storage tanks, pipelines and Oil wells
- m. Spill control and management

Training Design

The training is divided into three sessions

- a. Classroom lectures
- b. Case studies/session exercises
- c. Practical drills



COURSE MODULES/CONTENTS

Modules 1: Introduction to Petrochemical bulk processing, storage and transportation facility

This module covers Storage tanks types and construction, Refinery components unit and functions, the oil wells and its component, pipelines, loading racks etc. its aim to put participants through on awareness level on the component unit of flammable liquid bulk processing, storage and transportation facility.

Module 2: Characterization and Classification of Flammable Liquid

This module introduces the participants to NFPA 30 classification of flammable liquid and also the inherent properties of flammable liquid. Factors such as flash point, flammability limit and toxicity will be discussed.

Module 3: Hazardous material awareness

This module is tailored towards the identification and safety of specific hazardous materials associated with petrochemical industries.

Module 4: Personal Protective Equipment and Safety

This module covers all personal protective equipment such as BA, Personal Protective clothing, Flammable Gas Detectors, and other safety issues such as Boil Over, Frothover, Slopover and Hydrogen sulphide safety.

Module 5: Firefighting foam and application

This module covers different types of foam concentrate, foam requirements calculations according to NFPA 11, application methods and environmental impacts of foam concentrate etc.

Module 6: F-500 Encapsulating agent

This module covers F-500EA technology, application and effectiveness in 3D flammable liquid fire and soil remediation.

Module 7: Fire prevention and Protection techniques in Bulk processing, Storage and Transportation facility;

This module covers fire hazard and risk control, fire protection equipment, spill control measures etc. The principles of bonding and grounding will also be discussed.



Module 8: Emergency Planning and preparedness;

This module covers all aspect of emergency management in such facility. It covers both resources and equipment availability and compatibility. It includes such topics as firefighting water requirements, arrangement with fire service and other agencies, communications etc.

Module 9: Incident Management System & Standard Operating Guidelines

This module covers incident management principles and practice and Standard Operating Guidelines in Hazardous material incidents. This module is designed to put participants through on coordinated approach to incident management.

Module 10: Firefighting, Spill and Leak Control

This module covers firefighting practices in different types of storage tanks fires, pipelines fires and oil well fires. It covers best practices in foam and water application both for exposure cooling and fire extinguishment. It also covers Spill and Leak Control measures.

Practical Drill: This covers the use of foam and F-500EA in live firefighting and practical application of incident management system.

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