BTS
Training & Consultancy

HSE
HEALTH   SAFETY   ENVIRONMENT

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Fire Fighting In Oil Industry (Advanced)

Duration: 5 Days

Introduction:

The mechanisms of burning in fires and in explosions are different. In a fire the plume of vapor evolved by the fuel has been ignited and continues to bum at the interface with the surrounding air. In an explosion the fuel vapor becomes mixed with air before it is ignited. Flame then propagates through the mixture.

Who Should Attend?

Engineers and staff involved in oil industry and operations.

Course Objectives:

By the end of this course delegates will be able to:

The participants will learn basic fire, explosion and How to fight oil industrial fires.

Course Outline:

- **Overview of the basic principles of fire and explosion**
  - Introduction
  - Fire characteristics
  - Characteristics of petroleum products
  - Chemistry of fire
  - Fire tetrahedron
  - Stages of fire
  - Types of fire
  - Sources of Ignition
  - Explosion and explosives

- **Firefighter**
  - Duties and qualities of a fire fighter
  - Fire fighter safety
  - Fire-fighting skills

- **Control of fire**
  - Fighting theory
  - Kinds of fire extinguisher agents
  - Firefighting equipment's
  - Fixed and mobile pumping appliances
  - breathing apparatus
  - Firefighting tactics
  - Firefighting systems
  - Fire Alarm

- **How to fight oil industrial fires**
  - Contained oil fires
  - Preburn of petroleum product
  - Uncontained petroleum fires
  - Combination of contained and uncontained fires
  - Liquefied petroleum gas fire
  - Bleve
  - Pool fire
  - Flash fire
  - Jet fire
  - Vapor cloud
  - Floating roof tank fires

- Fixed roof tank fire
- Froth over
- Control and prevent crude oil tank fire
- Boil over
- High vapor pressure fire

- **Emergency Response Awareness**
  - Learning from evacuation drills & fire-fighting exercises
  - Emergency evacuation procedures for fires and different assembly points