

HS01 - Industrial Firefighting

Scope:

This course provides a comprehensive understanding of fire and its associated dangers. It identifies various types of fires, the equipment to be used for each type and the operation and application of the various types of firefighting equipment installed.

It equips those having a fire safety role and responsibility with the necessary knowledge and understanding to undertake fire risk assessment and general safety duties.

Course objectives

At the end of this training course, attendees will be able to:

- Outline the key elements of a fire safety management system;
- Outline the principles behind ignition and spread of fire and explosion in work premises;
- Outline appropriate control measures and minimize the fire risk;
- Advise on the selection of basic fire extinguishing methods;
- Outline appropriate methods for Pre-fire planning.

Who should attend:

All including but not limited to Engineers, PSM Specialists, and others involved in Firefighting.

Training Methodology:

This is an interactive training course and the content will be covered by using the following methodologies:

- Lectures;
- Workshops & Work Presentations;
- Case Studies & Practical Exercises;
- Videos.

Course instructor: Mr. Glafkos Theodotou

Glafkos is a Mechanical Engineer with more than 33 years of experience mainly in the Oil and Gas Industry. He holds an MSc Degree from The University of Aachen, Germany. After completing his studies, he followed postgraduate courses in Safety and Environment at the same university.

From 1992-2005 Glafkos Theodotou held the position of Head, Health, Safety and Environment at the Cyprus Petroleum Refinery Ltd (CPRL) and from 2005-2016 the same position at Cyprus Petroleum Storage Company Ltd (CPSCL) in Larnaca, Cyprus.

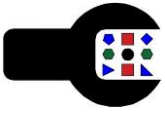
While working at the Cyprus Petroleum Refinery he attended courses in Fire Fighting (e.g. at the Fire Service College in Morton-on-Marsh, UK), Oil Spillage (e.g. at the Oil Spillage Centre in Southampton, UK) and many courses on safety and security issues in the oil industry like Quantity Risk Assessment at the Shell, Global Solution Center, Holland. He was the coordinator of the Larnaca Bay Oil Spill Plan established by the oil companies from 1996 until 2016. He was also the coordinator for the implementation of the Seveso Directive for the oil industry in the same area of Larnaca Bay.

Duration: The normal duration of the course is five days but this can be modified and it can be done in three days depending on the installation and customer needs. The agenda of the three-day course will be shorter and tailored to the customer's demands.

A week before the beginning of the course, a visit to the installation will be carried out in order to better adapt the course to the customer's needs (only for Cyprus).

The course can be held in Greek or in English.

Course Venue: TBA



DAY-1:

- Course Overview.
- Participant introduction.
- Short quiz
- Introduction
- Process of Combustion
- Auto-Ignition
- Flash point temperature
- Ignition, Growth and development of Fire
- Define the types of workplace fires
- Fire in solid materials

DAY-2:

- Fires involving flammable liquids or gases
- BLEVE
- Flash Fire
- Vapor Cloud
- Boil Over
- Fire Fighting
- Fire Fighting Agent
- Use of water on petroleum fires
- Water Application

DAY-3:

- Use of Foam on Petroleum Fires
- Protein Foam (F)
- Fluoroprotein Foam (FP)
- Film-forming Fluoroprotein Foam (FFFP)
- Synthetic Detergent (SYNDET) Foam
- Aqueous Film-forming Foam (AFFF)
- Alcohol Resistant Foam Concentrates (AFFF-AR and FFFP-AR)

- The supply of foam compound to oil fires
- Methods of applying foam
- Fire in confined area
- Spill Fire
- Foam as insulation

DAY-4:

- Danger in first-aid fire fighting
- The three dimensions of structural firefighting
- Personal Protective Equipment
- Self-contained Breathing Apparatus
- Classification of fires
- Portable Fire Extinguishers
- Water Fire Extinguishers
- Foam Fire Extinguishers
- Carbon Dioxide Extinguishers
- Dry Powder Extinguishers
- Fire Extinguisher use

DAY-5:

- Extinguisher Placement and Spacing
- Fire Hoses and hose reels
- Pre Incident survey & Planning
- Case Study
- Short quiz
- Questions and Answers
- Course assessment
- Presentation of Certificates