

GLOBAL EXPERTS INSTITUTE FOR TRAINING.
ISO 9001-2008 TRAINING PROVISION CERTIFIED

Storage Tank Fire Hazard Management

Schedule Dates:

Start Date	End Date	Place
27 Oct 2025	31 Oct 2025	London – Marriot Marble Arch Hotel
24 Nov 2025	28 Nov 2025	
22 Dec 2025	26 Dec 2025	

Program Introduction:

Storage tanks are critical assets in oil, gas, and chemical industries, but they also pose significant fire and explosion hazards. Failures in hazard identification, prevention, or emergency response can lead to catastrophic incidents involving loss of life, environmental damage, and financial loss.

This training course is designed to provide professionals with a comprehensive understanding of fire hazards associated with storage tanks, and how to manage them effectively using international standards, risk-based approaches, and best practices in fire prevention, detection, protection, and response planning.

Program Objectives:

- ✓ Identify fire hazards associated with different types of storage tanks.
- ✓ Understand causes and consequences of tank fires and explosions.
- ✓ Apply fire risk assessment techniques for storage tank facilities.
- ✓ Implement fire prevention and protection strategies.
- ✓ Select and design appropriate fire detection and suppression systems.
- ✓ Understand international codes and standards (e.g. NFPA 30, API 2001).
- ✓ Develop emergency response and fire contingency plans.
- ✓ Analyze case studies to identify gaps and lessons learned.
- ✓ Promote a proactive safety culture in tank farm operations.
- ✓ Integrate fire hazard management into asset integrity programs.

Who should attend?

- HSE professionals
- Sr. Fire Officer

- Chief Fire Officer
- Operations and maintenance personnel
- Storage tank operators and inspectors
- Crisis Hazard Leaders
- Emergency response & Hazmat Teams
- Risk and compliance officers
- Anyone involved in safety planning for storage facilities

Program Outlines

Day One

- Overview of Storage Tank Types and Functions
- Fire Triangle and Combustion Principles
- Types of Tank Fires (rim seal, full surface, internal, boilover)
- Common Causes of Storage Tank Fires
- Risk Assessment and Hazard Identification (HAZID, HAZOP)

Day Two

- Properties of Stored Materials and Fire Behavior
- Static Electricity, Lightning, and Ignition Sources
- Tank Design Considerations for Fire Safety
- API and NFPA Standards Related to Tank Fire Safety
- Passive and Active Fire Protection Systems

Day Three:

- Fixed and Mobile Foam Systems
- Detection Systems: Heat, Smoke, Infrared, and Gas
- Rim Seal Fire Detection and Suppression
- Tank Venting and Pressure Relief Devices
- Inserting and Blanketing Techniques

Day Four:

- Emergency Shutdown and Isolation Systems
- Spill Containment and Firewater Retention
- Firefighting Strategies and Tactics for Tank Fires
- Training and Drills for Emergency Response Teams
- Maintenance and Inspection of Fire Protection Systems

Day Five:





- Integration with Process Safety Management (PSM)
- Human Factors and Operational Discipline
- Case Studies of Major Tank Fires (e.g. Buncefield, Jaipur, etc.)
- Lessons Learned and Industry Best Practices
- Developing and Auditing Fire Hazard Management Plans

Training Methodology:

- Slide presentations
- Interactive discussion
- Simulations and Gamification
- Online Video material

Cost Quotation in Kuwaiti Dinars

The total cost includes:

-  Instructor(s) expenses
-  Training materials
-  Certification
-  Lunch Included

Total Cost: 1500 KD per Participant

(One Thousand Five Hundred Kuwaiti Dinar)