



HS190: Perfecting Process Safety: *From Disaster to Success*



Training Description:

To meet the increasing expectations of governments and the public Process Safety has been legislated for with increasing stringent standards. Unfortunately, incidents keep occurring for multi fold reasons which may well be production pressures and cost cutting measures such as staffing and training. Control rests ultimately with managers and engineers of the Process Plants as they are the on-site decision makers and must be competent not only in their own field but also in proactive safety.

Training and retraining are part of the competency cycle. This intensive training course aims at highlighting important aspect of Process Safety so as to increase competencies in safety and operational efficiency.

This training course will highpoint:

- Process safety
- Systems to prevent loss of containment
- Common hazards, risks and controls in the oil & gas industry
- Furnace operations
- Emergency Response

Training Objectives:

By the end of the training, participants will be able to:

- ✓ Explain the foundations of process safety
- ✓ Describe the systems to prevent loss of containment
- ✓ Analyse common risks and controls in the process safety industry
- ✓ Understand Furnace operations
- ✓ Appreciate Start Up and Shutdown Hazards
- ✓ Summarise safe entry procedures in confined spaces
- ✓ Create Emergency response strategies

Training Designed for:

This course is intended for professionals, who have local responsibilities for health and safety and require a measure of competence in this field. This course is suitable for Process Managers, Process Engineers, Team Leaders, Maintenance Engineers and Health and Safety personnel.

Training Program:

DAY ONE:

- ❖ Pre-Test
- ❖ **The Foundations of Process Safety**
 - Introduction
 - Learning from Accidents
 - Good Practice Standards for the Process Industry (EU and USA)
 - Permit-to-work System
 - Shift Handover the Key Principles
 - Case Study





DAY TWO:

❖ Risk Management and Management of Change

- Risk Management
- The Swiss Cheese Model
- HAZOP Studies
- Inherent Safer Design
- Management of Change
- Case Study

DAY THREE:

❖ Combustion and Confined Space Entry

- Furnace Operations
- Firing Conditions
- Confined Space Entry
- Cleaning, Isolating and Atmospheric Testing
- Training
- Case Study

DAY FOUR:

❖ Start Up, Shutdown, Hydrocarbon Storage & Types of Fire & Explosions

- Start Up & Shutdown
- Storage Depots – Bund Areas
- Safety Instrumented Systems
- Types of Fire & Explosions – VCE, UVCE, BLEVE, Boil Over
- Case Study

DAY FIVE:

❖ Fire and Emergency Response

- Passive and Active Fire Protection
- Case Study
- Emergency Response

❖ Course Conclusion

❖ Final Examination and EVALUATION

Training Requirement:

“Hand’s on practical sessions, equipment and software will be applied during the course if required and as per the client’s request.”

This training course is available upon request in English or Arabic. Content, location and duration can be adapted to your specific wishes. It is therefore possible to focus on specific modules of the training course as per client’s learning needs and objectives. Further, it should be forwarded to us a month prior to the course dates.

Training Certificate(s):

Internationally recognized certificate(s) will be issued to each participant who completed the course.





Training Methodology:

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:-

- 30% Lectures, Concepts, Role Play
- 30% Workshops & Work Presentations, Techniques
- 20% Based on Case Studies & Practical Exercises
- 20% Videos, Software & General Discussions
- Pre and Post Test

Training Fees:

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

Note: The 5% VAT (Value Added Tax), will be effective starting 01st of January 2018 as per the new regulation from the UAE Government. The VAT applies for all quotation both for local and abroad.

Training Timings:

Daily Timings:

07:45 - 08:00	Morning Coffee / Tea
08:00 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:30	Recess (Prayer Break & Lunch)
13:30 - 16:00	Last Session

For training registrations or in-house enquiries, please contact:

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Training & Career Development Department

