



Perfecting Process Safety

An **informat**tech Training Course
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Transforming
Business *for Good*



Course content

Why Choose this Course?

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 training course aims at highlighting important aspect of Process Safety so as to increase competencies in safety and operational efficiency.

This training course will feature:

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

By the end of this training course, 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

Who is this Course for?

This training course is aimed at professionals, who have local responsibilities for health and safety and require a measure of competence in this field.

This training course is suitable to a wide range of professionals but will greatly benefit:

- Process Managers
- Process Engineers
- Team Leaders
- Maintenance Engineers
- Health and Safety personnel



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Course Outline

Day One: 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

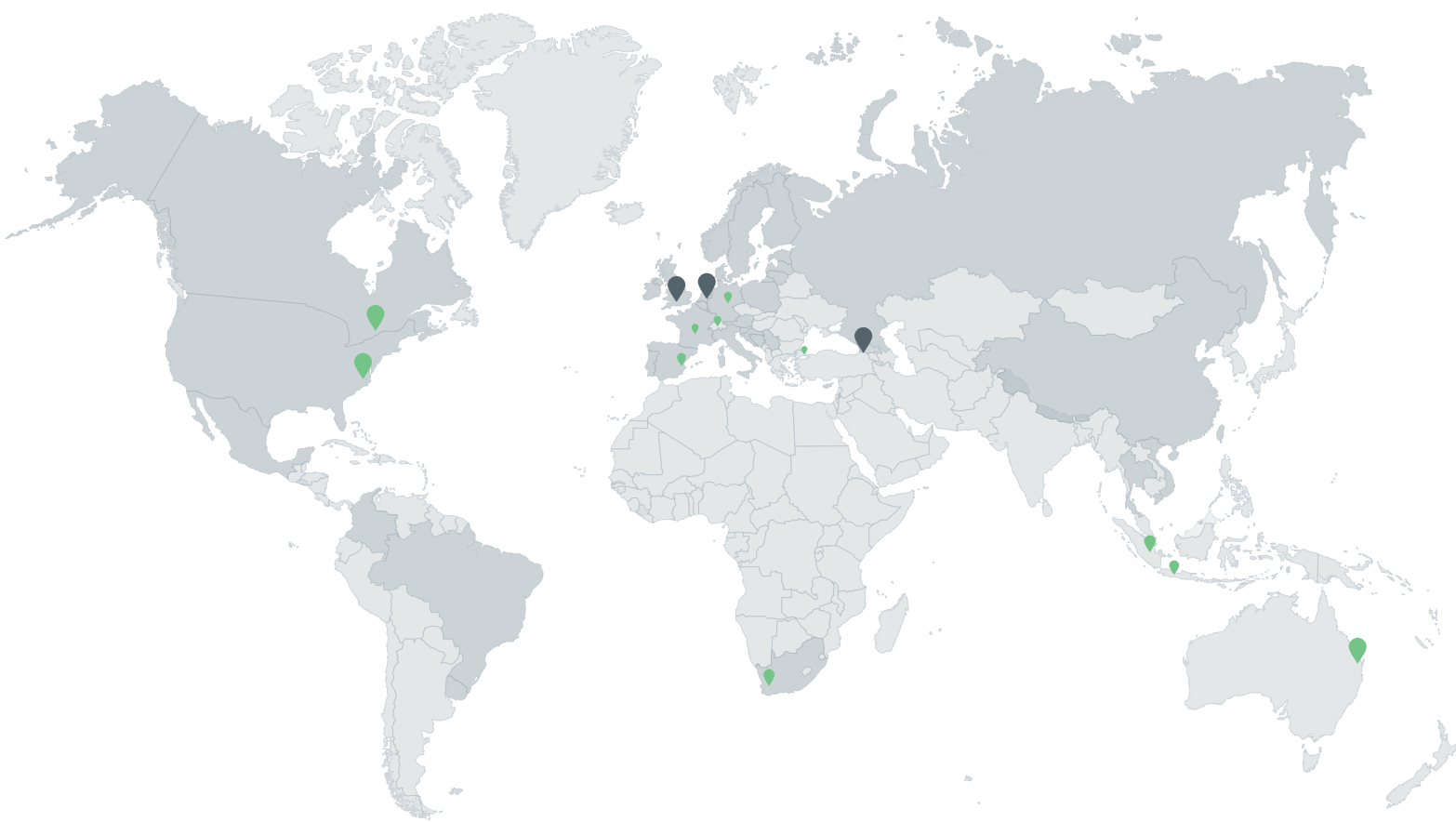
Passive and Active Fire Protection
Case Study
Emergency Response
Review of the Week
Evaluation

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www.informatech.co.uk

+44 (33) 000 111 90

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