

**//** Process safety  
Process hazards  
Risk reduction measures**TARGET POPULATION**

Personnel involved in the design and operation of chemical and petrochemical processes.

- Operations manager (production and maintenance)
- Process and process safety manager
- Health and safety engineer

All managers who may need to participate in risk analyses should be familiar with process hazards and with risk reduction measures (preventive and protective barriers).

**OBJECTIVES**

- Hazard identification : plant, process
- Evaluation of the consequences of process accidents
- Critical analysis of the safety of plant and process
- Choice of preventive and protective barriers and mitigating equipment
- General principles of risk management and process design

**PROGRAMME**

Over 5 days

- D1** | Major accidents in the chemical industry - Concepts and vocabulary – Principles of safety management – Principles of risk analysis methods
- D2** | Combustion concepts – Fire – Explosion of confined or unconfined gas – Dust explosion – Physical explosions (BLEVE, pneumatic explosions)
- D3** | Thermal explosion – Preventing explosions and fires
- D4** | Introduction to product toxicology – Chronic exposure, health and environmental impacts, epidemiology – Atmospheric dispersion – Corrosion and materials – Safety technology : water curtains, double confinement, analysis and detection equipment, inherently safe design, collecting from purges, .... – Advantages and disadvantages of various types of mitigation barriers
- D5** | Mitigating equipment – Safety Instrumented Systems – Plant design

**INFORMATIONS****Course manager**

Jacques Fournier, ICSI

**Trainers**

Safety and systems experts from large companies (Arkema, Rhodia, Total,...)

**Location and dates**

Lyon (in French)

June 7-11

September 13-17

November 15-19

Anvers (in English)

October 25-29

**Price**

2 125 € plus VAT

**FOR FURTHER INFORMATION AND ENROLMENT DETAILS**

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