

E-661

▲ Who should attend?

Project Engineers (major Project, Modifications, New Works...), in charge of the definition and conception of the **Safety System**, as well as the coordination of the different specialities impacting the **Safety of the installation**.

▲ Prerequisite

Attend course E-660.
or
Have an experience that covers the content of course E-660.

▲ Duration

5 days

▲ Dates & Location

November 23-27, 2009
Rueil-Malmaison (Paris)

▲ Registration

Fees: € 2,370

Contact:
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▲ Course Coordinator

Jacques PARPANT

Ref. **SEC / SAFENG2**

SAFETY ENGINEERING

ADVANCED COURSE

OBJECTIVES

To provide the knowledge and tools to be able to lead HSE studies, for the different stages of an Onshore or Offshore Oil & Gas project.

On completion of the course, participants:

- know the objectives, the applied methods as well as the deliverable documents for every project phase, during HSE development studies and construction,
- have practiced the use of a Guide for "Safety Design Practices" based on exercises and Case studies.

COURSE CONTENT

THE FOLLOWING PARTICULAR POINTS, NOT COVERED BY E-660 WILL BE DETAILED

2.5 days

HSE organization of a project

Human Factors: behavior, reliability, Consequences on the organization of Construction and Operation Phases

Fundamentals of Reliability, Criticality, Availability

Health and personnel protection

Buildings and Living Quarters, Prevention and protection of risks not related to Oil&Gas

Safety of electrical equipment: architecture of electrical generation and distribution system, Modes of protection against flammable gases

Safety rules applicable to wells (production, gas injection, gas lift...)

Process Emergency Shut-Down Structure, Architecture of protection levels, Depressurization

Passive protection against fire and explosion

Alarm, Alert and Evacuation systems - Elaboration of a strategy of response in the event of sinister (Emergency Procedures, Emergency Response Plan)

CASE STUDY

2.5 days

The theoretical aspects are covered all along a case study, which objective is to prepare a Safety Concept as well as all referent documents, for an Oil & Gas project (EPC Phase - Feed Engineering level)