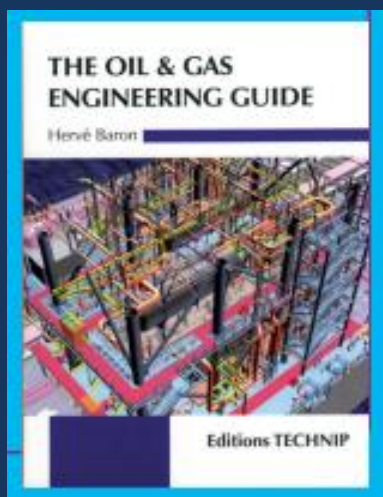


ABOUT THE INSTRUCTOR

Hervé Baron is a Project Manager with a leading Engineering Contractor, where he conducts the internal Engineering Training.

His 20 years of experience on Oil & Gas projects includes positions of Engineering and Project Manager on large off-shore and on-shore projects with SAIPEM and TECHNIP.

BARON'S PUBLICATION :



Pedagogical Methods:

Half of the training sessions are devoted to hands-on exercises carried out by the trainees so that they can put into practice the concepts introduced and ensure their acquisition.

“Give your teams the keys to manage your engineering contractors”

Course Overview

The 3-days training session is a detailed description of engineering activities in all disciplines, the organization, the interfaces between disciplines and a typical schedule. Each engineering task is explained and a sample of each common engineering deliverable is shown.

Hands-on exercises derived from real engineering tasks are carried out, including:

- Line and equipment sizing.
- Electrical power demand calculation.
- Typical HAZOP and QRA items.
- Determination of the engineering schedule to suit the Project's overall schedule and engineering constraints.

The trainees are shown the main challenges faced in engineering (discipline co-ordination, vendors, interfaces, changes, IT etc.) and given the good practices to address them.

Course Objectives:

- Identify critical activities supporting the implementation of an Engineering Project: key deliverables, time of issue to support the Project's schedule and critical path.
- Monitor engineering activities performed by contractors: identify key milestones, select meaningful indicators.
- Know the best practices, including management of changes, vendors, interfaces.
- Know the main risks in Engineering execution and how to mitigate them.
- Provide trainees with material for future reference: forms, lists, etc.

Who Should Attend:

Everyone involved in an Engineering Project, wishing to understand and direct its implementation, and particularly to monitor engineering contractors.

Course Content:

1. ENGINEERING OVERVIEW

- The organization and role of engineering in a project: the parties involved, quality, documents, engineering design data, codes & standards, sub-contracting
- Exercise: sensitivity of design criteria

2. ENGINEERING DISCIPLINE REVIEW

- The design basis & criteria
- The engineering disciplines: activities and deliverables (Process, Equipment/Mechanical, Plant layout, Safety, Civil & Structural, Material & Corrosion, Piping, Instrumentation and control, Electrical)

Exercises include:

- Drawing up the list of Engineering deliverables
- Understanding the sensitivity of cost to main design criteria
- Identification of the inter-relations between engineering disciplines
- Identification of vendor documents needed for engineering development
- Identification of all documents impacted by a change, etc.

Each trainee is provided with a 200 page document for future reference.

- The overall engineering work sequence: interfaces between disciplines and with vendors
- Exercises: equipment and line sizing, material selection, piping class allocation, electrical power demand calculation, HAZOP, QRA, sequencing of engineering tasks for an EPC Project

3. KEYS TO A SUCCESSFUL ENGINEERING EXECUTION

- Understanding the schedule requirements: critical path of an EPC Project, consequences for engineering
- The key engineering milestones + benchmarks
- The internal constraints of the Engineering schedule: interfaces between disciplines, Vendor input
- Interface and change management: challenges and best practice
- Exercises: draw the list of deliverables then establish the schedule for a FEED and an EPC project, identify interfaces between disciplines, identify vendor drawings required for design development

4. HOW TO CONTROL A CONTRACTOR

- What to put in place to control a contractor: how to effectively monitor progress
- Hands on exercise: Analyze progress figures, deduct required actions

For further Information regarding this course please contact:

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