COURSE BROCHURE

EPC Project Management

An advanced course on managing EPC projects in oil, gas and energy: contracting models and risk allocation, engineering, procurement and construction management, weighted progress, interfaces and mechanical completion.

Code	HT-PM-116
Category	Project Management
Duration	1 week
Level	Advanced

Introduction

On an EPC project one contractor carries design, supply and construction for a fixed price and date, so the three phases overlap and any slip in an engineering drawing or a long-lead item lands directly on site. Managing that overlap is what separates a profitable project from a distressed one.

Objectives

- Compare EPC, EPCM and convertible contracting models in terms of risk allocation
- Manage engineering deliverables, their issue cycle and design change control
- Manage procurement, long-lead equipment, expediting and vendor inspection
- Plan construction along the path of construction and manage the move to mechanical completion and pre-commissioning
- Measure weighted progress across engineering, procurement and construction and manage interfaces and change orders

Who should attend

- EPC project managers and deputies with contractors and owners
- Project engineering, procurement and construction managers
- Project controls, planning and interface engineers
- Project engineers in oil and gas, petrochemical and power companies

Skills you will develop

- Preparing a project execution plan
- Tracking the master deliverables register
- Procurement planning and expediting
- Weighted progress measurement and systems-based completion

Learning Outcomes

- Assess the risks of an EPC contract from the owner's and the contractor's position and propose responses
- Set up a progress measurement system that weights engineering, procurement and construction into one overall figure
- Identify critical equipment and build a supply plan tied to required-on-site dates
- Lay out the systems turnover sequence from mechanical completion to ready for start-up

Course Outline

Day 1: The EPC Model and Project Set-Up

- Contracting models: LSTK, EPCM, reimbursable and convertible contracts, and who carries which risk
- From FEED to EPC: package verification, basis of design and bid assumptions
- The project execution plan, task force organization and work and cost breakdown structures

Day 2: Engineering Management

- The master deliverables register and the issue cycle from IFR to IFA to IFC
- 3D model reviews at 30, 60 and 90 percent and close-out of HAZOP recommendations
- Vendor data and its effect on design, and control of design changes

Day 3: Procurement and Supply Chain

- Long-lead items, material requisitions and technical and commercial bid evaluation
- Expediting, vendor shop inspection, factory acceptance tests, shipping and customs clearance
- Materials management: material take-offs, surpluses and shortages and their effect on site

Day 4: Construction and Mechanical Completion

- Path of construction, constructability and modularization
- Managing workfronts and subcontractors, with drawings and materials available before work starts
- Moving from area-based to systems-based completion: A and B punch lists, pre-commissioning and ready for start-up

Day 5: Controls, Interfaces and Applied Project

- Weighted progress measurement for engineering, procurement and construction, S-curves and completion forecasts
- Change orders and interface management between disciplines, licensors, vendors and adjacent contractors
- Applied workshop in which each group prepares and presents an execution plan and a level 2 schedule for a gas processing package

Training methodology

A gas processing package case used in exercises across the five days
Excel exercise on calculating weighted engineering, procurement and construction progress
Analysis of a deliverables register and a supply plan to find threats to site dates
Discussion of lessons from EPC projects that stalled at completion and turnover

Certification

Participants receive a Harbor Training Center certificate of attendance on completing the course.

Upcoming dates

City	Dates	Language	Fee
Istanbul	26 – 30 April 2027	AR	EUR 4,800
Dubai	3 – 7 May 2027	AR	EUR 4,500
London	10 – 14 May 2027	EN	EUR 5,700
Amsterdam	17 – 21 May 2027	AR	EUR 5,500
Online	24 – 28 May 2027	EN	EUR 1,800
Istanbul	25 – 29 October 2027	EN	EUR 4,800
Dubai	1 – 5 November 2027	EN	EUR 4,500

Fees are per participant.

Contact us

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To register and for details, scan the code or visit:

https://harbor4training.com/en/courses/epc-project-management