MERCURY

Cost Estimation for Oil & Gas Facilities Decommissioning and Abandonment

16 - 20 May 2027
Kuala Lumpur (Malaysia)

Dubai - UAE: +971 4 450 5697
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Ref.: 121782_1047304 **Date:** 16 - 20 May 2027 **Location:** Kuala Lumpur (Malaysia) **Fees:** 4900 **Euro**

Introduction

The Cost Estimation for Oil & Gas Facilities Decommissioning and Abandonment course provides an understanding of the principles, methods, and practices for estimating decommissioning costs for oil and gas assets. It explores the technical, financial, environmental, and regulatory factors influencing abandonment projects throughout the asset lifecycle. Participants will learn how to develop reliable cost estimates for wells, pipelines, offshore platforms, and supporting facilities, accounting for operational challenges and risk factors. The program focuses on practical approaches for cost planning, budgeting, uncertainty analysis, and decision-making in complex decommissioning environments. It highlights industry practices related to health, safety, environmental compliance, and sustainable asset retirement. Participants will support accurate cost forecasting and effective decommissioning project management.

Targeted Groups

This Cost Estimation for Oil & Gas Facilities Decommissioning and Abandonment training targets professionals seeking knowledge and skills:

- Oil and gas project engineers managing decommissioning activities.
- Cost engineers prepare abandonment project estimates.
- Asset managers plan the retirement of offshore and onshore facilities.
- Financial professionals evaluate decommissioning liabilities.
- HSE specialists manage environmental and safety costs.
- Engineering consultants supporting oil and gas closure projects.
- Project managers oversee abandonment schedules and budgets.
- Technical professionals involved in asset lifecycle management.

Course Objectives

Participants will achieve the following objectives by completing the Cost Estimation for Oil & Gas Facilities Decommissioning and Abandonment course:

- Understand the principles and regulatory requirements of oil and gas decommissioning.
- Identify major cost drivers affecting abandonment projects.
- Apply suitable cost estimation methodologies for different asset types.
- Develop structured cost estimates for wells, pipelines, and facilities.
- Evaluate environmental, HSE, and operational risks influencing costs.
- Analyze uncertainty factors and contingency requirements in estimates.
- Understand budgeting processes for decommissioning projects.
- Review practical case studies related to asset retirement projects.
- Improve cost forecasting and financial planning capabilities.
- Support decision-making through accurate abandonment cost assessments.

Targeted Competencies

Participants will gain the following competencies during the Cost Estimation for Oil & Gas Facilities Decommissioning and Abandonment program:

- Ability to evaluate decommissioning cost requirements.
- Skills in developing reliable abandonment cost models.
- Understanding of well and facility retirement expenses.
- Capability to analyze project risks and uncertainties.
- Knowledge of environmental and HSE cost considerations.
- Ability to prepare decommissioning budgets.
- Skills in reviewing cost estimation assumptions.
- Understanding of regulatory cost impacts.

Studying Scenarios

In this Cost Estimation for Oil & Gas Facilities Decommissioning and Abandonment training, participants develop skills through the following scenarios:

- Estimating costs for offshore platform removal projects.
- Evaluating well abandonment cost requirements.
- Planning pipeline decommissioning activities.
- Assessing environmental restoration expenses.
- Reviewing cost risks in facility retirement projects.
- Developing budgets for complex abandonment programs.

Course Content

Unit 1: Decommissioning Fundamentals & Regulations

- Introduction to oil and gas facilities decommissioning concepts.
- Understanding the objectives of asset retirement and abandonment projects.
- Reviewing lifecycle stages leading to facility decommissioning.
- Identifying regulatory requirements affecting decommissioning activities.
- Exploring offshore and onshore decommissioning challenges.
- Understanding decommissioning strategies and execution approaches.
- Analyzing regulatory compliance impacts on project costs.
- Reviewing industry practices for the safe abandonment of assets.

Unit 2: Cost Estimation Methodologies & Planning

- Understanding principles of oil and gas cost estimation.
- Identifying different cost estimation techniques and applications.
- Applying conceptual and detailed estimation approaches.
- Developing cost breakdown structures for abandonment projects.
- Evaluating labor, equipment, materials, and service costs.
- Understanding cost forecasting methods for decommissioning activities.
- Assessing uncertainty, escalation, and contingency factors.
- Preparing cost estimation plans for project execution.

Unit 3: Well, Pipeline & Facility Decommissioning Costs

- Understanding oil and gas well plugging and abandonment cost components.
- Evaluating drilling and intervention requirements for well closure.

- Estimating pipeline removal and abandonment expenses.
- Analyzing subsea equipment decommissioning costs.
- Assessing offshore platform dismantling requirements.
- Evaluating transportation and disposal cost factors.
- Understanding facility cleaning and preparation expenses.
- Developing cost estimates for complete asset retirement.

Unit 4: Environmental, HSE & Risk Cost Estimation

- Understanding environmental obligations during decommissioning.
- Estimating costs related to environmental monitoring activities.
- Evaluating waste management and disposal requirements.
- Assessing HSE requirements affecting project budgets.
- Identifying safety risks during abandonment operations.
- Applying risk-based cost estimation techniques.
- Evaluating the impacts of uncertainty on final project costs.
- Developing contingency plans for cost risk management.

Unit 5: Budgeting, Case Studies & Practical Workshop

- Understanding decommissioning budget development processes.
- Preparing financial forecasts for abandonment projects.
- Reviewing cost control methods during project execution.
- Analyzing real-world decommissioning case studies.
- Evaluating successful cost management practices.
- Applying estimation techniques through practical exercises.
- Developing integrated abandonment cost estimation models.
- Presenting final cost assessment results and recommendations.

Final Insights & Key Takeaways

The Cost Estimation for Oil & Gas Facilities Decommissioning and Abandonment course equips professionals with essential knowledge for developing accurate, reliable, and risk-based decommissioning cost estimates. Participants gain a practical understanding of cost planning, regulatory considerations, and financial strategies required for successful oil and gas asset retirement projects.

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Registration form on the :
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code: 121782 **From:** 16 - 20 May 2027 **Venue:** Kuala Lumpur (Malaysia) **Fees:** 4900 **Euro**

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