Training Course on Capital Project Delivery in Oil and Gas (Advanced)

Professional Development Training Course Outline

Category	Oil and Gas	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Capital project delivery in the oil and gas sector demands a high level of expertise, strategic coordination, and innovative methodologies to ensure cost-efficiency, compliance, and timely execution. Training Course on Capital Project Delivery in Oil & Gas (Advanced) is designed to equip professionals with the knowledge, tools, and strategies to manage large-scale capital projects from initiation to completion. With an emphasis on project lifecycle integration, risk management, stakeholder engagement, and value assurance, this course reflects the latest industry trends and best practices.

As global energy demands evolve and capital project complexities increase, professionals must master techniques such as digital transformation, contract strategy optimization, sustainability integration, and agile project delivery. This course integrates real-world case studies from leading oil and gas projects, aligning participants with the strategic, technical, and operational competencies needed for high-impact roles in capital project execution and governance.

Programme Curriculum

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Course Objectives

1. Master the full capital project lifecycle in upstream and downstream oil & gas.
2. Apply digital twin and BIM (Building Information Modeling) in project planning.
3. Develop cost optimization strategies using advanced project controls.
4. Identify and mitigate capital project risks using predictive analytics.
5. Analyze stakeholder mapping for improved stakeholder alignment and governance.
6. Leverage agile and hybrid project delivery models for scalability.
7. Understand procurement strategies in global oil & gas megaprojects.
8. Integrate sustainability and ESG frameworks into capital project design.
9. Apply change management practices in volatile energy environments.
10. Evaluate contract models: EPC, EPCM, and lump sum turnkey.
11. Benchmark oil & gas project performance using global KPIs.
12. Navigate regulatory frameworks across international energy markets.
13. Develop leadership capabilities for capital project excellence.

Target Audiences

1. Project Managers – Oil & Gas
2. Capital Project Engineers
3. Contract and Procurement Managers
4. Portfolio and Program Managers
5. HSE and Sustainability Officers
6. Financial Analysts and Cost Controllers
7. Risk and Compliance Officers
8. Government Energy Regulators

Course Duration: 5 days

Course Modules

Module 1: Capital Project Lifecycle Management

- Overview of project phases in oil & gas
- Front-End Loading (FEL) stages and best practices

- Integration of planning, execution, and close-out
- Application of project stage-gate processes
- Value assurance and decision review checkpoints
- **Case Study:** Managing a multi-billion-dollar offshore gas development lifecycle

Module 2: Digital Transformation in Project Delivery

- Introduction to Digital Twin and BIM applications
- Data integration for real-time project monitoring
- Use of AI and IoT in capital project tracking
- Advanced analytics and dashboard visualization
- Cybersecurity in digital project systems
- **Case Study:** Implementing BIM in a refinery upgrade project

Module 3: Risk Management in Oil & Gas Projects

- Risk identification and qualitative assessments
- Quantitative risk analysis using Monte Carlo simulations
- Creating robust risk registers and heat maps
- Cost and schedule risk integration
- Developing mitigation plans with contingency reserves
- **Case Study:** De-risking a deepwater exploration project

Module 4: Procurement & Contract Strategy Optimization

- Strategic sourcing in global supply chains
- Comparison of EPC, EPCM, LSTK models
- Contract risk allocation and legal frameworks
- Supplier qualification and performance monitoring
- Advanced negotiation techniques for major contracts
- **Case Study:** Contract strategy for LNG terminal construction

Module 5: Agile and Hybrid Project Delivery Models

- Overview of agile principles in capital projects
- Tailoring hybrid models for oil & gas constraints
- Sprints, backlogs, and iterative design integration
- Enhancing project responsiveness in volatile markets
- Culture change and team transformation
- **Case Study:** Agile transformation in a brownfield oilfield expansion

Module 6: Stakeholder Engagement & Governance

- Stakeholder identification and influence analysis
- Building stakeholder engagement plans
- ESG reporting and social license to operate
- Governance frameworks for project oversight

- Conflict resolution and communication channels
- **Case Study:** Stakeholder alignment in transnational pipeline project

Module 7: Financial Planning & Cost Control

- Capital budgeting techniques (NPV, IRR, Payback)
- Cost breakdown structures (CBS) and cash flow modeling
- Earned value management (EVM) applications
- Forecasting and cost performance index (CPI)
- Variance analysis and corrective action plans
- **Case Study:** Controlling cost overruns in onshore oil development

Module 8: Sustainability & Environmental Integration

- ESG metrics in oil & gas projects
- Carbon footprint assessment tools
- Circular economy and energy efficiency practices
- Environmental Impact Assessment (EIA) compliance
- Green engineering and sustainable procurement
- **Case Study:** Integrating ESG into offshore platform design

Training Methodology

- Interactive expert-led sessions with real-world case studies
- Hands-on workshops with digital tools and project simulation
- Group discussions and knowledge-sharing forums
- Pre- and post-assessments to measure learning outcomes
- Participant-led project planning exercises with feedback

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

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