Oil and Gas Project Management Professional Training Course

23 - 27 Nov 2026

Barcelona

5900 € (Per Person)

Ref: #OG1538_99152

Course Introduction / Overview:

The global energy landscape is defined by complexity, volatility, and immense capital investment, making specialized project management skills more critical than ever. This course provides a comprehensive A-to-Z framework for managing oil and gas projects successfully, from initial exploration to final decommissioning. It delves into the unique challenges of the sector, including managing high-stakes risks, navigating stringent regulatory environments, and optimizing project performance amidst market fluctuations. Drawing upon established principles and contemporary practices, the curriculum is designed to equip professionals with the tools to lead projects effectively across the upstream, midstream, and downstream segments. As noted by project management authority Dr. Paul D. Giammalvo, success in this field requires a deep integration of technical knowledge with robust management processes. This program, offered by BIG BEN Training Center, bridges that gap by focusing on the practical application of concepts detailed in foundational guides and industry case studies, ensuring participants can deliver complex capital projects on time, within budget, and to the highest safety and quality standards.

Target Audience / This training course is suitable for:

- Project Managers and Project Leaders.
- Project Engineers from all disciplines.
- Project Control and Planning Professionals.
- Contract and Procurement Specialists.
- Operations and Maintenance Managers.
- HSE and Quality Assurance Professionals.
- Financial Analysts and Commercial Managers.
- Team Leaders and Technical Supervisors in the energy sector.
- Professionals aspiring to a project management role in oil and gas.

Target Sectors and Industries:

- Upstream Oil and Gas (Exploration and Production).
- Midstream Oil and Gas (Pipeline, Storage, and Transportation).
- Downstream Oil and Gas (Refining and Petrochemicals).
- Engineering, Procurement, and Construction (EPC) Contractors.
- Oilfield Service and Equipment Supply Companies.
- Renewable and Transitional Energy Project Divisions.
- Governmental bodies, national oil companies, and regulatory agencies.
- Financial institutions and investment firms focused on the energy sector.

Target Organizations Departments:

- Project Management Office (PMO).
- Engineering and Design Departments.
- Operations and Production Units.
- Procurement and Supply Chain Management.
- Health, Safety, and Environment (HSE).
- Contracts and Commercial Departments.
- Finance and Project Controls.
- Business Development and Strategy.
- Asset Management and Integrity.

Course Offerings:

By the end of this course, the participants will have able to:

- Master the complete oil and gas project lifecycle from concept to commissioning.
- Develop and implement a robust Project Execution Plan (PEP) for energy projects.
- Apply advanced techniques for scope definition, scheduling, and cost estimation.
- Identify, assess, and mitigate the unique risks inherent in oil and gas operations.
- Manage complex procurement and contracting strategies for capital projects.
- Lead stakeholder engagement and communication in a multi-disciplinary environment.
- Implement effective project controls for monitoring and forecasting performance.
- Ensure compliance with stringent Health, Safety, and Environment (HSE) standards.
- Navigate the financial and economic evaluation of petroleum projects.
- Integrate modern digital tools and sustainability practices into project management.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be highly interactive, practical, and directly applicable to the professional challenges faced in the oil and gas industry. This course moves beyond theoretical lectures to immerse participants in a dynamic learning environment. The approach is centered on real-world case studies drawn from major international energy projects, allowing participants to analyze successes and failures to extract actionable lessons. A significant portion of the training is dedicated to collaborative group exercises and workshops where participants work in teams to solve complex project scenarios, develop project plans, and conduct risk assessments. This fosters teamwork and a deeper understanding of diverse perspectives. Expert-led discussions provide a platform for sharing experiences and gaining insights into industry best practices. Participants will receive continuous feedback from the instructor and peers, ensuring a solid grasp of the concepts. The methodology emphasizes learning by doing, equipping attendees with not just knowledge, but the confidence and skills to apply it immediately in their workplace.

Course Agenda (Course Units):

Unit One: Foundations of Oil and Gas Project Management

- Introduction to the global oil and gas industry.
- The unique characteristics of energy sector projects.
- The complete project lifecycle from exploration to abandonment.
- Key project stakeholders and their influence.
- Understanding upstream, midstream, and downstream projects.
- The role and responsibilities of the project manager.
- Introduction to project management frameworks and standards.

Unit Two: Strategic Project Planning and Initiation

- Defining project objectives and success criteria.
- Developing the project charter and business case.
- Work Breakdown Structure (WBS) for oil and gas projects.
- Advanced project scheduling and critical path analysis.
- Cost estimation techniques for capital-intensive projects.
- Front-End Engineering Design (FEED) and its importance.
- Developing the comprehensive Project Execution Plan (PEP).

Unit Three: Managing Project Risks, Quality, and HSE

- Framework for risk identification, analysis, and response planning.
- Managing geological, market, and operational risks.
- Implementing a project quality management system.
- Health, Safety, and Environment (HSE) management in project execution.
- Developing an effective HSE plan and safety culture.
- Incident investigation and emergency response planning.
- Ensuring regulatory compliance and environmental stewardship.

Unit Four: Procurement, Contracts, and Stakeholder Engagement

- Project procurement and supply chain management strategies.
- Types of contracts in the oil and gas industry (EPC, EPCM, etc.).
- Contract administration and claims management.
- Effective negotiation with contractors and suppliers.
- Identifying and analyzing project stakeholders.
- Developing a stakeholder engagement and communication plan.
- Managing community relations and social license to operate.

Unit Five: Execution, Control, and Modern Project Leadership

- Monitoring and controlling project progress against baselines.
- Earned Value Management (EVM) for performance measurement.
- Change management and control procedures.
- Project interface management and coordination.
- Commissioning, startup, and handover to operations.
- Project closeout, final documentation, and lessons learned.
- Digital transformation, sustainability, and the future of energy project management.

FAQ:

Qualifications required for registering to this course?

There are no requirements.

How long is each daily session, and what is the total number of training hours for the course?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

Something to think about:

How can project managers effectively balance the competing demands of maximizing economic returns, ensuring stringent safety standards, and advancing sustainability goals within a single oil and gas capital project?

What unique qualities does this course offer compared to other courses?

Unlike generic project management courses, this program is meticulously tailored to the unique ecosystem of the oil and gas industry. Its primary distinction lies in its specialized focus, addressing the specific complexities, terminologies, and challenges that are not found in other sectors. The curriculum moves beyond standard project management theory to explore industry-critical topics such as Front-End Engineering Design (FEED), managing subsurface uncertainties, navigating complex joint-venture agreements, and ensuring rigorous HSE compliance in high-risk environments. The course content is enriched with case studies from real-world upstream, midstream, and downstream projects, providing participants with practical, actionable insights rather than just theoretical knowledge. Furthermore, it integrates contemporary issues shaping the industry, including the impact of digital transformation, the energy transition, and the growing importance of sustainability in project design and execution. This forward-looking approach ensures that participants are equipped not only to manage current projects but also to lead the next generation of energy projects with strategic foresight and technical proficiency.