



COURSE OVERVIEW DE0923 **Petroleum Project Economics & Risk Analysis**

Course Title

Petroleum Project Economics & Risk Analysis

Course Date/Venue

February 01-05, 2026/TBA Meeting Room, The H Dubai Hotel, Sheikh Zayed Rd-Trade Centre, Dubai, UAE

Course Reference

DE0923



Course Duration/Credits

Five days/3.0 CEUs/30 PDHs

Course Description



This practical and highly-interactive course includes real-life case studies and exercises where participants will be engaged in a series of interactive small groups and class workshops.

This course is designed to provide participants with a detailed and up-to-date overview of Petroleum Project Economics & Risk Analysis. It covers the importance of petroleum project economics and its role in decision-making; the basic principles of economics in petroleum; the petroleum fiscal, time value of money and key performance indicators; the exploration costs, development costs, operating costs and abandonment and decommissioning costs; the price forecasting, break-even analysis and risk analysis and management; and the quantitative and qualitative risks analysis, mitigating risks in petroleum projects and portfolio management.



During this interactive course, participants will learn the contractual and fiscal risks; addressing risks associated with contracts, agreements and changes in government policies; the equity, debt and project finance and the importance of environmental, social and governance (ESG) in project decision-making and financial performance; the economic evaluation of shale oil, shale gas and other unconventional resources; the strategic planning in petroleum, long-term planning and integration of economic evaluation into corporate strategy; and the global energy transition, digitalization and the role of technologies like AI, IoT and data analytics in improving project economics.



Course Objectives

Upon the successful completion of this course, each participant will be able to:-

- Apply and gain a comprehensive knowledge on petroleum project economics and risk analysis
- Discuss the importance of petroleum project economics and its role in decision-making
- Identify the basic principles of economics in petroleum covering the concepts of supply and demand, price elasticity and economic indicators relevant to the oil and gas industry
- Recognize petroleum fiscal, time value of money and key performance indicators
- Identify the exploration costs, development costs, operating costs and abandonment and decommissioning costs
- Carryout price forecasting, break-even analysis and risk analysis and management
- Employ quantitative and qualitative risks analysis, mitigating risks in petroleum projects and portfolio management
- Recognize contractual and fiscal risks and address risks associated with contracts, agreements and changes in government policies
- Discuss equity, debt and project finance including the importance of environmental, social and governance (ESG) in project decision-making and financial performance
- Apply economic evaluation of shale oil, shale gas and other unconventional resources
- Carryout strategic planning in petroleum, long-term planning and integration of economic evaluation into corporate strategy
- Determine global energy transition, digitalization and the role of technologies like AI, IoT and data analytics in improving project economics

Exclusive Smart Training Kit - H-STK®



*Participants of this course will receive the exclusive “Haward Smart Training Kit” (H-STK®). The H-STK® consists of a comprehensive set of technical content which includes **electronic version** of the course materials conveniently saved in a **Tablet PC**.*

Who Should Attend

This course provides an overview of all significant aspects and considerations of petroleum project economics and risk analysis for petroleum engineers, geologists and geoscientists, financial analysts, project managers, energy consultants, business development professionals, entrepreneurs and investors.

Accommodation

Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.



Course Certificate(s)

Internationally recognized certificates will be issued to all participants of the course who completed a minimum of 80% of the total tuition hours.

Certificate Accreditations

Haward's certificates are accredited by the following international accreditation organizations: -

-  [British Accreditation Council \(BAC\)](#)

Haward Technology is accredited by the **British Accreditation Council for Independent Further and Higher Education** as an **International Centre**. Haward's certificates are internationally recognized and accredited by the British Accreditation Council (BAC). BAC is the British accrediting body responsible for setting standards within independent further and higher education sector in the UK and overseas. As a BAC-accredited international centre, Haward Technology meets all of the international higher education criteria and standards set by BAC.

-  [The International Accreditors for Continuing Education and Training \(IACET - USA\)](#)

Haward Technology is an Authorized Training Provider by the International Accreditors for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this authority, Haward Technology has demonstrated that it complies with the **ANSI/IACET 2018-1 Standard** which is widely recognized as the standard of good practice internationally. As a result of our Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for its programs that qualify under the **ANSI/IACET 2018-1 Standard**.

Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking **Continuing Education Units** (CEUs) in accordance with the rules & regulations of the International Accreditors for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

Haward Technology Middle East will award **3.0 CEUs** (Continuing Education Units) or **30 PDHs** (Professional Development Hours) for participants who completed the total tuition hours of this program. One CEU is equivalent to ten Professional Development Hours (PDHs) or ten contact hours of the participation in and completion of Haward Technology programs. A permanent record of a participant's involvement and awarding of CEU will be maintained by Haward Technology. Haward Technology will provide a copy of the participant's CEU and PDH Transcript of Records upon request.

Course Fee

US\$ 8,000 per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.





Course Instructor

This course will be conducted by the following instructor(s). However, we have the right to change the course instructor(s) prior to the course date and inform participants accordingly:



Mr. Konstantin Zorbalas, MSc, BSc, is a **Senior Petroleum Engineer & Well Completions Specialist** with over **25 years** of **offshore and onshore** experience in the **Oil & Gas, Refinery & Petrochemical** industries. His wide expertise includes **Workovers & Completions, Petroleum Risk & Decision Analysis, Acidizing Application in Sandstone & Carbonate, Well Testing Analysis, Stimulation Operations, Reserves Evaluation, Reservoir Fluid Properties, Reservoir Engineering & Simulation Studies, Reservoir Monitoring, Artificial Lift Design, Gas Operations, Workover/Remedial Operations & Heavy Oil Technology, Applied Water Technology, Oil & Gas Production, X-mas Tree & Wellhead Operations & Testing, Artificial Lift Systems (Gas Lift, ESP, and Rod Pumping), Well Cementing, Production Optimization, Well Completion Design, Sand Control, PLT Correlation, Slickline Operations, Acid Stimulation, Well testing, Production Logging, Project Evaluation & Economic Analysis**. Further, he is actively involved in **Project Management** with special emphasis in production technology and field optimization, performing conceptual studies, economic analysis with risk assessment and field development planning. He is currently the **Senior Petroleum Engineer & Consultant of National Oil Company** wherein he is involved in the mega-mature fields in the Arabian Gulf, predominantly carbonate reservoirs; designing the acid stimulation treatments with post-drilling rigless operations; utilizing CT with tractors and DTS systems; and he is responsible for gas production and preparing for reservoir engineering and simulation studies, well testing activities, field and reservoir monitoring, production logging and optimization and well completion design.

During his career life, Mr. Zorbalas worked as a **Senior Production Engineer, Well Completion Specialist, Production Manager, Project Manager, Technical Manager, Technical Supervisor & Contracts Manager, Production Engineer, Production Supervisor, Production Technologist, Technical Specialist, Business Development Analyst, Field Production Engineer and Field Engineer**. He worked for many world-class oil/gas companies such as **ZADCO, ADMA-OPCO, Oilfield International Ltd, Burlington Resources** (later acquired by **Conoco Phillips**), **MOBIL E&P, Saudi Aramco, Pluspetrol E&P SA, Wintershall, Taylor Energy, Schlumberger, Rowan Drilling and Yukos EP** where he was in-charge of the **design and technical analysis** of a gas plant with capacity **1.8 billion m3/yr gas**. His achievements include **boosting oil production 17.2% per year** since 1999 using **ESP and Gas Lift systems**.

Mr. Zorbalas has **Master and Bachelor** degrees in **Petroleum Engineering** from the **Mississippi State University, USA**. Further, he is an **SPE Certified Petroleum Engineer, Certified Instructor/Trainer, a Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership & Management (ILM)**, an active member of the Society of Petroleum Engineers (**SPE**) and has numerous scientific and technical publications and delivered innumerable training courses, seminars and workshops worldwide.



Training Methodology

All our Courses are including **Hands-on Practical Sessions** using equipment, State-of-the-Art Simulators, Drawings, Case Studies, Videos and Exercises. The courses include the following training methodologies as a percentage of the total tuition hours:-

- 30% Lectures
- 20% Practical Workshops & Work Presentations
- 30% Hands-on Practical Exercises & Case Studies
- 20% Simulators (Hardware & Software) & Videos

In an unlikely event, the course instructor may modify the above training methodology before or during the course for technical reasons.

Course Program

The following program is planned for this course. However, the course instructor(s) may modify this program before or during the course for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

Day 1: Sunday, 01st of February 2026

0730 – 0745	<i>Registration & Coffee</i>
0745 – 0800	<i>Welcome & Introduction</i>
0800 – 0815	PRE-TEST
0815 – 0845	Course Overview & Objectives <i>Introduction to the Importance of Petroleum Project Economics & its Role in Decision-Making</i>
0845 – 0930	Historical Perspective <i>Overview of Petroleum Economics from the Past to Present, Major Events & their Implications</i>
0930 – 0945	<i>Break</i>
0945 – 1130	Basic Principles of Economics in Petroleum <i>Concepts of Supply & Demand, Price Elasticity & Economic Indicators Relevant to the Oil & Gas Industry</i>
1130 – 1230	Petroleum Fiscal Systems <i>Introduction to Tax Royalties, Production Sharing Agreements & Service Contracts</i>
1230 – 1245	<i>Break</i>
1245 – 1330	Time Value of Money <i>Understanding Discount Rates, Net Present Value (NPV) & the Significance of Future Cash Flows</i>
1330 - 1420	Key Performance Indicators <i>Overview of NPV, Internal Rate of Return (IRR), Payback Period & Profitability Index</i>
1420 – 1430	Recap
1430	<i>Lunch & End of Day One</i>

Day 2: Monday, 02nd of February 2026

0730 – 0830	Exploration Costs <i>Costs Associated with Locating Reserves, including Seismic & Drilling Costs</i>
0830 – 0930	Development Costs <i>Expenditures Related to Preparing Reserves for Production</i>
0930 – 0945	<i>Break</i>





0945 - 1115	Operating Costs Costs to Produce, Maintain & Transport Petroleum
1115 - 1230	Abandonment & Decommissioning Costs The Financial and Environmental Costs Associated with Closing a Project
1230 - 1245	Break
1245 - 1330	Price Forecasting Techniques & Challenges of Predicting Future Petroleum Prices
1330 - 1420	Break-even Analysis Determining the Minimum Oil or Gas Price Required for a Project to be Economically Viable
1420 - 1430	Recap
1430	Lunch & End of Day Two

Day 3: Tuesday, 03rd of February 2026

0730 - 0830	Introduction to Risk & Uncertainty Definitions, Distinctions & its Significance in Petroleum Projects
0830 - 0930	Quantitative Risk Analysis Techniques like Monte Carlo Simulation, Sensitivity Analysis & Decision Trees
0930 - 0945	Break
0945 - 1115	Qualitative Risk Analysis SWOT Analysis, Expert Judgment & Scenario Planning
1115 - 1230	Mitigating Risks in Petroleum Projects Strategies to Minimize Exposure to Price Volatility, Geopolitical Risks, Etc.
1230 - 1245	Break
1245 - 1330	Portfolio Management in Petroleum Diversifying Assets & Projects to Minimize Risk & Maximize Return
1330 - 1420	Contractual & Fiscal Risks Addressing Risks Associated with Contracts, Agreements & Changes in Government Policies
1420 - 1430	Recap
1430	Lunch & End of Day Three

Day 4: Wednesday, 04th of February 2026

0730 - 0830	Financing Petroleum Projects Understanding Equity, Debt & Project Finance
0830 - 0930	Environmental, Social & Governance (ESG) Factors Importance of ESG in Project Decision-Making & Financial Performance
0930 - 0945	Break
0945 - 1115	Economic Evaluation of Unconventional Resources Economics of Shale Oil, Shale Gas & Other Unconventional Resources
1115 - 1230	Strategic Planning in Petroleum Long-Term Planning, Integration of Economic Evaluation into Corporate Strategy
1230 - 1245	Break
1245 - 1330	Global Energy Transition & its Impacts Shift to Renewables & the Role of Oil & Gas in the Future Energy Mix
1330 - 1420	Digitalization & its Economic Impact Role of Technologies like AI, IoT & Data Analytics in Improving Project Economics
1420 - 1430	Recap
1430	Lunch & End of Day Four



Day 5: Thursday, 05th of February 2026

0730 - 0830	Field Development Decision Case Study <i>An In-Depth Look at the Economic Factors Behind a Decision to Develop a Field</i>
0830 - 0930	Economic Evaluation of a Mega Project <i>Detailed Financial & Risk Analysis of a Large-Scale Petroleum Project</i>
0930 - 0945	Break
0945 - 1130	Downstream Project Economics Case Study <i>Economics of Refining, Transportation & Retailing</i>
1130 - 1230	Petroleum Project in a Politically Unstable Region <i>Addressing Geopolitical Risks & Strategies to Manage them</i>
1230 - 1245	Break
1245 - 1315	Innovation & Technology's Impact on Project Economics <i>Case Study of a Project that Significantly Benefited from a Technological Breakthrough</i>
1315 - 1345	Wrap-up & Future Trends <i>Summarizing Key Learnings & Discussing Upcoming Trends & Challenges in Petroleum Project Economics</i>
1345 - 1400	Course Conclusion
1400 - 1415	POST-TEST
1415 - 1430	Presentation of Course Certificates
1430	Lunch & End of Course

Practical Sessions

This practical and highly-interactive course includes real-life case studies and exercises:-



Course Coordinator

Mari Nakintu, Tel: +971 2 30 91 714, Email: mari1@haward.org