THE 10-DAY ADVANCED PROJECT ECONOMICS & PERFORMANCE MANAGEMENT FOR OIL & GAS PROFESSIONALS



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TRAINING CENTER

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Introduction

The 10-Day Advanced Project Economics & Performance Management for Oil & Gas Professionals Training Course connects the economics of petroleum projects with the performance discipline that delivers them. Participants learn to appraise upstream and downstream investments, then to measure whether the promised value actually arrives. The coverage spans economic modelling, fiscal analysis, portfolio prioritisation, cost and schedule performance, earned value management, benchmarking and benefits realisation. Furthermore, it addresses performance reporting, corrective action and capital discipline. As a result, delegates can appraise a petroleum project and manage its delivery against the same economic case. Gentex Training Center delivers the programme through modelling workshops and applied project case work.

The 10-Day Advanced Project Economics & Performance Management for Oil & Gas Professionals Course Objectives

- Appraise oil and gas projects using discounted and non-discounted techniques.
- Build project economic models in Microsoft Excel for petroleum assets.
- Apply fiscal regime analysis to project economics.
- Assess cost, schedule and production performance against plan.
- Apply earned value management to capital projects.
- Construct cost estimates and contingency at appropriate accuracy levels.
- Benchmark project performance across assets and industry peers.
- Prioritise a capital portfolio under resource and funding constraints.
- Track benefits realisation against the original economic case.
- Report project economics and performance to boards and partners.

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Course Methodology

The programme combines technical briefings with extended modelling workshops and applied petroleum project case studies. Participants build an economic model, run performance analysis and prepare a project review for a simulated board. In addition, structured peer review and committee simulation sharpen judgement, and each day closes with an applied project task.

Who Should Take This Course

- Project economists, analysts and planning professionals in oil and gas.
- Petroleum, development and facilities engineers.
- Project managers and cost engineers on capital projects.
- Business development, commercial and joint venture staff.
- Finance, planning and performance management teams in energy.
- Consultants and advisers supporting petroleum project delivery.

The 10-Day Advanced Project Economics & Performance Management for Oil & Gas Professionals Course Outlines

Day 1: Project Economics Foundations and Decision Context

- Project economics purpose and decision gateways.
- Cash flow construction and relevant cash flow rules.
- Real versus nominal terms, escalation and inflation.

- Discounting, discount rate selection and hurdle rates.
- WACC for oil and gas companies and risk-adjusted rates.
- Economic modelling standards and documentation.
- Workshop: building a project economic model framework.

Day 2: Cost Estimating and Contingency

- Cost estimate classes and accuracy ranges.
- Capital cost estimating methods for petroleum projects.
- Operating cost estimation and fixed versus variable behaviour.
- Contingency, allowances and risk-based estimating.
- Optimism bias and reference class forecasting.
- Estimate review, benchmarking and assurance.
- Workshop: building a capital cost estimate with contingency.

Day 3: Fiscal Regimes and Government Take

- Concessionary and production sharing contract structures.
- Royalty, cost oil, profit oil and contractor entitlement.
- Ring-fencing, loss carry forward and fiscal consolidation.
- Government take, contractor take and progressivity.
- Tax, supplementary charge and special petroleum taxes.
- Fiscal term comparison across jurisdictions.
- Workshop: modelling fiscal terms in a project economic model.

Day 4: Investment Metrics and Economic Indicators

- NPV, IRR, MIRR, XIRR and payback calculation.

- Unit technical cost and cost per barrel metrics.
- Break-even price and break-even production analysis.
- Profitability index and capital efficiency measures.
- Sensitivity analysis and tornado charts.
- Scenario analysis and probabilistic value assessment.
- Workshop: calculating investment metrics and break-even prices.

Day 5: Planning, Scheduling and Project Controls

- Work breakdown structure and activity definition.
- Scheduling techniques, critical path and float analysis.
- Resource loading and levelling for projects.
- Progress measurement and milestone definition.
- Cost and schedule integration in project controls.
- Baseline setting, change control and reforecasting.
- Workshop: building a project schedule and performance baseline.

Day 6: Earned Value Management and Cost Performance

- Earned value concepts: PV, EV and AC.
- Cost performance index and schedule performance index.
- Variance analysis and estimate at completion.
- Cost to complete and forecast accuracy measurement.
- Productivity, rework and change order impact analysis.
- Corrective action and recovery planning.
- Workshop: running earned value analysis on a project.

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Day 7: Production, Revenue and Operating Performance

- Production performance against plan and forecast.
- Deferment, downtime and unplanned loss analysis.
- Operating expenditure performance and cost per barrel.
- Revenue performance and commodity price effect.
- Facility availability and reliability metrics.
- Benchmarking operating performance across assets.
- Workshop: analysing production and cost performance.

Day 8: Portfolio Prioritisation and Capital Discipline

- Portfolio construction and strategic fit assessment.
- Ranking metrics under capital rationing.
- Risk-adjusted ranking and expected monetary value.
- Multi-period capital allocation models.
- Joint venture, partner and non-operated interest considerations.
- Post-investment review and decision quality.
- Workshop: prioritising a capital portfolio under constraints.

Day 9: Benefits Realisation and Value Tracking

- Linking the economic case to delivery commitments.
- Benefits realisation planning and ownership.
- Value tracking from approval through to production.
- Deviations from the original economic case and their causes.

- Reserves, resource and production reconciliation.
- Learning loops from project outcomes to future estimates.
- Workshop: building a benefits realisation tracker.

Day 10: Performance Reporting and Board Presentation

- Performance reporting frameworks and dashboard design.
- Project and portfolio reporting to boards and partners.
- Key performance indicators for capital and operating performance.
- Executive summaries and exception reporting.
- Assurance, audit readiness and reporting integrity.
- Presenting project economics and performance under challenge.
- Workshop: presenting a project economics and performance review to a panel.

Conclusion

By successfully completing The 10-Day Advanced Project Economics & Performance Management for Oil & Gas Professionals Training Course, participants will have acquired the knowledge to appraise petroleum projects and manage their delivery on the same economic basis. They will understand investment metrics, fiscal regimes, cost estimating, project controls, earned value management, portfolio prioritisation and benefits realisation, and they will know how to report performance to boards and partners. As a result, delegates improve capital discipline and project outcomes. Gentex Training Center builds the programme around current industry practice.

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FAQs for The 10-Day Advanced Project Economics & Performance Management for Oil & Gas Professionals course

Q1 What is the "The 10-Day Advanced Project Economics & Performance Management for Oil & Gas Professionals" course about?

It connects petroleum project appraisal with delivery performance across ten days. You learn economic modelling, fiscal regime analysis, investment metrics, cost estimating, project controls, earned value management, portfolio prioritisation and benefits realisation.

Q2 What are the key benefits of the "The 10-Day Advanced Project Economics & Performance Management for Oil & Gas Professionals" course?

You gain a single economic basis for appraising a project and judging its delivery, rather than appraising and reporting separately. You also improve cost estimate realism, measure cost and schedule performance with earned value, benchmark operating performance, prioritise capital with risk-adjusted metrics, and track whether the promised value arrived.

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Q3 What skills will I gain from the "The 10-Day Advanced Project Economics & Performance Management for Oil & Gas Professionals" course?

You will gain petroleum project economic modelling and fiscal regime analysis, investment appraisal, cost estimating and contingency assessment, and project controls, earned value management, portfolio prioritisation and benefits realisation tracking.

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Q4 What tools, methods, or standards are covered in the "The 10-Day Advanced Project Economics & Performance Management for Oil & Gas Professionals" course?

The course covers discounted cash flow construction with real versus nominal treatment, WACC and risk-adjusted discount rate selection, cost estimate classes and accuracy ranges, risk-based contingency and allowance setting, optimism bias and reference class forecasting, concessionary and production sharing contract fiscal modelling, royalty, cost oil, profit oil and contractor entitlement calculations, ring-fencing and loss carry forward, government take and progressivity analysis, NPV, IRR, MIRR, XIRR and payback appraisal, unit technical cost and cost per barrel calculation, break-even price and break-even production analysis, profitability index and capital efficiency measures, sensitivity analysis and tornado charts, scenario and probabilistic value assessment, work breakdown structure and critical path scheduling with float analysis, resource loading and levelling, progress measurement and milestone definition, baseline setting and change control, earned value management with PV, EV and AC, cost performance index and schedule performance index, estimate at completion and cost to complete forecasting, productivity and rework analysis, production deferment and downtime analysis, facility availability and reliability metrics, portfolio ranking under capital rationing, expected monetary value and risk-adjusted ranking, multi-period capital allocation, benefits realisation planning and value tracking, reserves and production reconciliation, and performance dashboard and board reporting frameworks.

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Q5 How is the "The 10-Day Advanced Project Economics & Performance Management for Oil & Gas Professionals" course applied in real-world practice?

Graduates apply it to build and review petroleum project economic models, model fiscal terms under different regimes, calculate investment metrics and break-even prices, prepare capital cost estimates with risk-based contingency, build project schedules and performance baselines, run earned value analysis on capital projects, analyse production and operating cost performance, prioritise capital portfolios under constraints, track benefits realisation from approval to production, and report project economics and performance to boards, partners and joint venture stakeholders.