

Integrated Oil and Gas Field Development Projects Training Course

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Overview

Integrated Oil and Gas Field Development Projects Training Course is a one-week course for field development leaders, subsurface and facilities teams, project engineers, planners, and asset managers who leave with an Integrated Field Development Project Decision Pack. Participants connect subsurface uncertainty, production profiles, wells, facilities, concept selection, cost, schedule, risk, project assurance, and execution readiness through multidisciplinary field development decisions. Agile Leaders Training Center presents this course on integrated oil and gas field development.

Who Should Attend

- Functions responsible for field development planning and asset decisions
- Teams responsible for subsurface evaluation and production forecasts
- Personnel responsible for wells, facilities, and infrastructure concepts
- Groups responsible for project framing, cost, schedule, and risk
- Technical assurance and governance functions responsible for decision gates

The course assumes participants interpret subsurface, engineering, project, or commercial evidence at work; it leaves out detailed reservoir simulation and equipment design calculations.

Departments and Industries

The course supports departments and industries that evaluate, select, assure, or execute field development opportunities.

- Oil and gas asset and field development teams
- Subsurface, wells, production, and facilities departments
- Project engineering, controls, and assurance functions
- Energy investment and technical due-diligence groups
- Engineering contractors and development consultancies
- Infrastructure, export, and operations readiness organizations

Learning Objectives

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

- Analyze development objectives, evidence, and uncertainty
- Build production, wells, and facility planning cases
- Compare development concepts with consistent criteria
- Evaluate cost, schedule, risk, and interface assumptions
- Prioritize assurance work and value-of-information actions
- Build a decision pack for execution readiness

Course Agenda

Day 1: Frame the Development Opportunity

- Field Development Lifecycle and Decision-Gate Map
- Development Objectives and Success-Criteria Canvas
- Appraisal Evidence and Data Maturity Register
- Multidisciplinary Roles and Interface Matrix
- Field Development Basis and Assumption Log

Day 2: Integrate Subsurface and Production Cases

- In-Place Volume and Recovery Uncertainty Range
- Low Base and High Production Profile Set
- Depletion Strategy and Recovery Mechanism Matrix
- Development Well Count and Sequence Model
- Appraisal Value-of-Information Decision Sheet

Day 3: Generate and Select Development Concepts

- Wells Facilities and Export Concept Architecture
- Facility Capacity and Design-Case Envelope
- Development Option Generation Canvas
- Multi-Criteria Concept Screening Scorecard
- Phased Development and Expansion Roadmap

Day 4: Test Project and Execution Readiness

- Development Cost and Schedule Basis
- Critical Interface and Dependency Map
- Integrated Development Risk Register
- Technical Assurance and Review Plan
- Decision-Gate Readiness Evidence Index

Day 5: Practice Field Development Decisions

- Suggested Exercise: Challenge a Production Profile
- Suggested Exercise: Screen Development Concepts
- Suggested Exercise: Test Cost and Schedule Assumptions
- Suggested Exercise: Review Gate Readiness Evidence
- Capstone Exercise: Present an Integrated Field Development Project Decision Pack

Practical Exercises

The course uses suggested activities to turn subsurface, engineering, project, and commercial evidence into integrated development choices.

- Suggested activity: challenge volume, recovery, well, and production assumptions across uncertainty cases.
- Suggested activity: compare wells, facilities, export, capacity, phasing, flexibility, and risk across development concepts.
- Suggested activity: trace critical interfaces through cost, schedule, assurance, and execution-readiness evidence.
- Suggested activity: present a recommendation with assumptions, uncertainties, sensitivities, risks, and next decisions.

FAQs

Who suits integrated oil and gas field development training, and what does it assume?

Asset, subsurface, wells, facilities, project, planning, commercial, and assurance functions suit the training. It assumes experience interpreting technical, project, or commercial evidence.

How does integrated field development differ from general project management training?

Integrated field development connects subsurface uncertainty, production profiles, wells, facilities, concept selection, economics, and asset decisions. General project management focuses on methods for organizing scope, schedule, cost, resources, and delivery across industries.

How are oil and gas field development concepts compared?

Concepts are compared through consistent criteria for production delivery, wells, facility capacity, infrastructure, cost, schedule, operability, flexibility, risk, uncertainty, and readiness, with assumptions and tradeoffs recorded.

How should production uncertainty influence field development projects?

Production uncertainty should shape well count, facility capacity, phasing, flexibility, economics, sensitivities, appraisal choices, and decision margins rather than being represented by a single forecast.

What evidence supports an oil and gas field development decision gate?

Decision-gate evidence should show defined objectives, mature assumptions, integrated technical cases, selected-concept rationale, cost and schedule bases, managed interfaces and risks, assurance findings, unresolved actions, and readiness for the next phase.

Conclusion

Participants take an Integrated Field Development Project Decision Pack back to their organization. It connects uncertainty cases, production profiles, wells, facilities, concept selection, project controls, risk, assurance, and gate readiness. Asset teams can use the pack to compare options, document tradeoffs, target missing evidence, and explain development recommendations.

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