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COURSE BROCHURE

Reservoir Management and Field Development Decisions Training Course

14 – 18 November 2027
Manama

Reservoir Management and Field Development Decisions Training Course

Ref: 1454_54067 **Date:** 14 – 18 November 2027 **Location:** Manama **Fees:** 5500 GBP

Reservoir Management and Field Development Decisions is a 1-week training course for reservoir engineers and asset managers who choose how a field is drilled, pressured and expanded, and who leave with a reservoir management plan for an asset. With capital rationed across portfolios and fields asked to deliver longer plateaus, every well slot, injector and facility debottleneck must earn its place against alternatives. Jupiter Prime Training delivers this reservoir management and field development course.

Why Reservoir Management and Field Development Decisions Matters Now

Three forces shape development choices today: portfolio owners who compare each field's next investment against other assets and energy options; host partners who expect long plateau production and clear stewardship of national resources; and integrated asset teams in which geoscience, wells, facilities and economics must agree on one development story. An asset that decides well sequences infill drilling, pressure support and facility upgrades so each adds value before the next. An asset that decides poorly over-drills, under-sizes injection or locks in facilities that limit future recovery. The course draws on integrated field development planning, stage-gate decision practice and multidisciplinary reservoir management methods used across the industry.

Who Gains Most from Reservoir Management and Field Development Decisions

- Engineers who build development scenarios and production profiles for producing fields
- Asset managers who approve drilling campaigns, injection projects and facility upgrades
- Simulation specialists who prepare models that rank development options
- Facilities and wells planners who translate subsurface choices into capital projects
- Economists who test development cases for value and risk

Integrated asset teams gain most when subsurface, wells, facilities and commercial members attend together and debate one development case.

Reservoir Management and Field Development Decisions Capabilities

Participants learn to frame each development choice as an option with costs, recoverable volumes, risks and timing that leaders can compare.

- Design development scenarios combining well count, spacing and pressure support — asset investment choices
- Specify simulation inputs and history-match checks — confidence in production forecasts
- Weigh water injection, gas injection and depletion strategies — pressure maintenance decisions
- Calculate net present value and capital efficiency for options — portfolio ranking
- Assess subsurface uncertainty with low, mid and high cases — robust development choices
- Build a reservoir management plan with surveillance and review triggers — asset leadership

Key Reservoir Management and Field Development Decisions Terms

- Reservoir management plan — A living document setting depletion strategy, wells, surveillance and decision triggers for a field over its life.
- Field development plan — The approved concept for wells, facilities and production that turns resources into recoverable volumes.
- Plateau rate — The steady production level a field sustains before decline, set by reservoir capacity and facility limits.
- Pressure maintenance — Injection of water or gas to hold reservoir pressure and sustain well rates and recovery.
- History matching — Adjusting a simulation model until it reproduces observed pressures and production, before using it to forecast.
- Stage-gate review — A formal decision point where a project must meet defined criteria before moving to the next phase.

Reservoir Management and Field Development Decisions Day by Day

Day 1: The Reservoir Management Cycle

- Reservoir Management Cycle From Discovery to Abandonment — Framing Life-of-Field Choices
- Integrated Asset Team Roles and Interfaces — Aligning Subsurface and Surface Decisions
- Development Objectives and Value Drivers — Setting Targets for Recovery and Plateau
- Data Acquisition Planning for Appraisal — Reducing Key Uncertainties Before Commitment
- Stage-Gate Decision Process — Controlling Investment Readiness

Day 2: Simulation Inputs and Forecasting

- Static Model Handover From Geoscience — Checking Volumes and Connectivity
- Dynamic Simulation Inputs and Grid Choices — Matching Model Detail to Decisions
- History Matching Quality Checks — Judging Forecast Credibility
- Production Profiles Under Facility Constraints — Setting Realistic Plateau and Decline
- Low, Mid and High Uncertainty Cases — Bracketing Development Outcomes

Day 3: Pressure Maintenance Strategy

- Natural Depletion Versus Injection Screening — Choosing the Pressure Support Route
- Water Injection Scheme Design — Sizing Injectors and Water Supply
- Gas Injection and Gas Reinjection Options — Balancing Recovery and Gas Sales
- Voidage and Pressure Targets by Reservoir Unit — Setting Operating Guidelines
- Improved Recovery Opportunity Screening — Planning Later-Life Upside

Day 4: Field Development Options and Economics

- Well Count, Spacing and Infill Sequencing — Ranking Drilling Campaigns
- Horizontal, Multilateral and Smart Well Options — Matching Well Type to Reservoir
- Facility Capacity and Debottlenecking Choices — Linking Surface Limits to Recovery
- Net Present Value and Capital Efficiency Metrics — Comparing Development Cases
- Decision Trees and Value of Information — Deciding What to Learn Before Investing

Day 5: Practising the Reservoir Management Plan

- Development Scenario Set for a Mature Carbonate Field — Applying Option Design
- Pressure Support Recommendation — Applying Injection Screening
- Economic Ranking of Development Cases — Applying Value Metrics
- Surveillance Plan and Review Triggers — Linking Monitoring to Decisions
- Reservoir Management Plan — Presenting Strategy, Investments and Triggers to Leadership

Applying Reservoir Management and Field Development Decisions After the Course

- Rebuild the development option set for one field and rank the options by net present value and risk.
- Review whether current pressure support matches voidage targets and propose injection or well changes.

Reservoir Management and Field Development Decisions Questions FAQ

What is reservoir management and field development decision making and why does it matter now?

Reservoir management and field development decision making is the process of choosing wells, pressure support and facilities to maximise a field's value over its life. It matters now because capital is scarce and fields must justify each investment against alternatives.

Which roles gain most from reservoir management and field development decisions training?

Reservoir engineers, asset managers, simulation specialists, facilities and wells planners and economists gain most. You benefit if you prepare or approve development cases, injection projects or drilling campaigns.

How does reservoir management and field development decisions differ from a reserves estimation course?

This reservoir management course focuses on choosing and sequencing development options and pressure support, while reserves estimation courses focus on calculating and classifying volumes.

What do you bring back from reservoir management and field development decisions training?

You bring back a reservoir management plan with development scenarios, a pressure support recommendation, economic rankings and surveillance triggers for your asset.

Reservoir Management and Field Development Decisions: The Way Forward

The reservoir management plan becomes the reference for the next asset investment review, first informing which drilling or injection project goes ahead. Reservoir engineers, asset managers and facilities planners use it to keep subsurface and surface choices aligned. After its first use, revisit the review triggers once new pressure and production data show whether the chosen depletion strategy is performing.