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COURSE BROCHURE

Play Fairway Analysis and Prospect Generation Training Course

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Geneva

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Registered in the United Kingdom and Saudi Arabia

Play Fairway Analysis and Prospect Generation Training Course

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Play Fairway Analysis and Prospect Generation is a 1-week training course for exploration geologists and geophysicists who turn regional basin knowledge into drillable targets, and who leave with a ranked prospect inventory for one play. Fewer licence rounds, tighter exploration budgets and partners who demand consistent risking mean every well must be justified against a mapped play. Jupiter Prime Training delivers this play fairway analysis course.

Why Play Fairway Analysis and Prospect Generation Matters Now

Three pressures shape how exploration portfolios are built today. Management committees fund fewer wells and want each one ranked against every alternative in the same basin. Joint venture partners expect chance of success and volume estimates built the same way across assets, so that farm-in and farm-out talks rest on comparable numbers. Mature basins push explorers towards subtle stratigraphic traps and deeper plays where one missing element ends the play. A team that maps play elements honestly drills fewer dry holes; one that risks prospects in isolation repeats the same failure across several wells.

Who Gains Most from Play Fairway Analysis and Prospect Generation

- Geologists who map source, reservoir and seal distribution across a basin
- Geophysicists who define structural and stratigraphic traps on seismic and check their closure
- Explorers who mature leads into prospects and prepare them for well proposals
- Specialists who estimate chance of success and in-place volumes for portfolio ranking
- Coordinators who assemble play maps and prospect data for licence and partner meetings

An exploration asset group that sends its geologists and geophysicists together gains most.

Play Fairway Analysis and Prospect Generation Capabilities

Participants learn to move from a basin's petroleum system to a defensible order of drilling targets.

- Map source, reservoir, seal and trap presence for each play interval — basin entry choices
- Combine element maps into common risk segment maps — areas worth further seismic
- Define leads on seismic and test closure, spill points and fault seal — prospect maturation
- Assign chance of success to each geological element with consistent risk tables — portfolio committees
- Calculate probabilistic volumes from area, thickness and recovery ranges — economic screening

- Build a ranked inventory that sets risk against volume across prospects — drilling sequence

Key Play Fairway Analysis and Prospect Generation Terms

- Play — a group of prospects and fields sharing the same source, reservoir, seal and trap style.
- Play fairway — the area where all elements needed for a working play are believed present.
- Common risk segment map — a map that colours areas by the confidence that each play element works.
- Lead — a possible trap identified on limited data that needs more work before it can be risked fully.
- Geological chance of success — the probability that a prospect holds a flowing hydrocarbon accumulation.
- Creaming curve — a plot of discovered volume against wells drilled, showing how a play matures.

Play Fairway Analysis and Prospect Generation Day by Day

Day 1: Basin Framework and Petroleum Systems

- Tectonostratigraphic Charts and Megasequences — Defining Play Intervals
- Petroleum System Events Charts — Timing of Charge Against Trap Formation
- Source Rock Kitchens and Migration Pathways — Where Charge Can Reach
- Play Definition by Reservoir, Seal and Trap Style — Naming Each Play
- Creaming Curves and Field Size Distributions — Judging Play Maturity

Day 2: Mapping Play Elements

- Gross Depositional Environment Maps — Predicting Reservoir Presence and Quality
- Regional Seal Mapping — Top Seal Extent and Thickness Limits
- Well Failure Analysis — Learning Which Element Failed in Dry Holes
- Element Confidence Grids — Separating Data Quality From Geological Risk
- Common Risk Segment Map Construction — Overlaying Elements Into Fairways

Day 3: From Leads to Prospects

- Seismic Lead Identification — Structural Closures and Stratigraphic Pinch-Outs
- Depth Conversion Uncertainty — Effect on Closure Area and Crest
- Spill Point and Fault Seal Checks — Limits on Trap Fill
- Direct Hydrocarbon Indicators — Using Amplitudes Without Over-Grading Prospects
- Lead Maturation Criteria — When a Lead Becomes a Prospect

Day 4: Risking and Volumes

- Element Risk Tables — Consistent Chance Values Across Prospects
- Shared and Independent Risk — Dependencies Between Prospects in One Play
- Probabilistic Volume Inputs — Area, Net Pay, Porosity and Saturation Ranges
- Random Sampling Volume Distributions — Reading Low, Mid and High Cases
- Risk Against Volume Cross-Plots — Comparing Prospects on One Chart

Day 5: Building the Ranked Prospect Inventory

- Carbonate Play in a Mature Basin — Applying Element Mapping and Failure Analysis
- Deepwater Clastic Play — Applying Lead Maturation and Depth Uncertainty
- Peer Assurance Panel — Challenging Chance Values and Volume Ranges
- Portfolio Sequencing — Choosing Which Prospect Tests the Play First
- Ranked Prospect Inventory — Issuing Risk, Volume and Drilling Order

Applying Play Fairway Analysis and Prospect Generation After the Course

- Rebuild the common risk segment map for one play using the dry holes and discoveries in the asset's database.
- Re-risk the current lead and prospect list with one element risk table and present the revised order to the exploration manager.

Play Fairway Analysis and Prospect Generation Questions FAQ

What is play fairway analysis and prospect generation, and why does it matter now?

It is the mapping of play elements across a basin and the maturing of leads into risked prospects. Fewer funded wells and partners who expect consistent risking make a mapped, ranked portfolio necessary.

Which roles gain most from play fairway analysis and prospect generation?

Exploration geologists and geophysicists gain most. Risk specialists and coordinators who prepare well proposals also benefit.

How does play fairway analysis and prospect generation differ from a seismic interpretation course?

It uses seismic as one input among many. The focus is on mapping play elements, risking prospects consistently and ranking them, rather than on picking horizons and building attribute maps.

What do you bring back from play fairway analysis and prospect generation?

You bring back a ranked prospect inventory for one play. It holds the common risk segment map, chance of success by element, volume ranges and a proposed drilling order.

Play Fairway Analysis and Prospect Generation: The Way Forward

The ranked prospect inventory first informs which prospect should test a play before more money is spent on its neighbours. Exploration managers, geoscientists and partner representatives use it to agree drilling order and seismic spend. After the first well result, revisit the common risk segment map and update every prospect that shares the tested element.