

Play Fairway Analysis and Prospect Generation Training Course

22 – 26 November 2026
Johannesburg

AGILE LEADERS
Training Center

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Overview

Play Fairway Analysis and Prospect Generation Training Course is a one-week intermediate-to-advanced course for exploration geoscientists, geologists, geophysicists, basin analysts, and managers who leave with a Play Fairway and Prospect Inventory. Participants connect petroleum systems analysis, common risk segment mapping, seismic and well evidence, play element maps, prospect risking, resource ranges, uncertainty, and exploration portfolio ranking. Agile Leaders Training Center presents this course on play fairway analysis and prospect generation.

Who Should Attend

- Teams responsible for petroleum systems and basin evaluation
- Functions responsible for seismic, structural, and stratigraphic interpretation
- Personnel responsible for lead identification and prospect maturation
- Groups responsible for geological risking and resource ranges
- Managers responsible for exploration portfolios and decisions

The course assumes participants can interpret geological, seismic, and well information; it leaves out seismic processing and detailed reservoir simulation.

Departments and Industries

The course supports departments and industries that evaluate subsurface opportunities and exploration portfolios.

- Oil and gas exploration organizations
- Geothermal and subsurface energy teams
- Petroleum systems and basin-analysis departments
- Geology, geophysics, and petrophysics functions
- Exploration assurance and portfolio management groups
- Technical advisory and resource-assessment teams

Learning Objectives

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

- Apply a basin-to-play exploration hierarchy
- Analyze petroleum-system evidence and uncertainty
- Build charge, reservoir, seal, and trap risk maps
- Evaluate leads and mature prospect definitions
- Estimate geological chance and resource ranges
- Prioritize a risked exploration prospect portfolio

Course Agenda

Day 1: Frame Plays and Evidence

- Basin, Petroleum System, Play, Prospect, and Target Hierarchy
- Petroleum System Events and Evidence Chart
- Exploration Data Coverage and Confidence Matrix
- Stratigraphic and Structural Framework Map
- Play Definition and Boundary Statement

Day 2: Map Play Elements

- Source Maturity and Hydrocarbon Charge Map
- Migration Pathway and Timing Interpretation
- Reservoir Presence and Quality Fairway Map
- Regional Seal and Containment Risk Map
- Trap Formation and Preservation Framework

Day 3: Build Fairway Risk Maps

- Common Risk Segment Mapping Method
- Charge, Reservoir, Seal, and Trap Composite Grid
- Play Sweet Spot and Dependency Map
- Seismic and Well Evidence Calibration Table
- Play Uncertainty and Data Gap Register

Day 4: Generate and Rank Prospects

- Lead Identification and Maturation Funnel
- Prospect Closure and Target Definition Sheet
- Geological Chance of Success Matrix
- Resource Range and Scenario Estimation Table
- Risked Prospect Portfolio Ranking Model

Day 5: Practice Fairway Decisions

- Suggested Exercise: Define a Petroleum Play
- Suggested Exercise: Build Common Risk Segments
- Suggested Exercise: Mature a Lead into a Prospect
- Suggested Exercise: Rank Risked Exploration Opportunities
- Capstone Exercise: Present a Play Fairway and Prospect Inventory

Practical Exercises

The course uses suggested activities to convert diverse geological evidence into traceable exploration decisions.

- Suggested activity: organize source, migration, reservoir, seal, trap, timing, and preservation evidence by confidence.
- Suggested activity: combine element maps into common risk segments and identify geological dependencies.
- Suggested activity: define a prospect, document closure and targets, and assign chance and resource ranges.
- Suggested activity: rank prospects using risked value, uncertainty, data gaps, dependencies, and portfolio fit.

FAQs

Who suits play fairway analysis and prospect generation training, and what does it assume?

Exploration geoscientists, geologists, geophysicists, basin analysts, and managers suit the training. It assumes they can interpret geological, seismic, and well information.

How does play fairway analysis differ from prospect evaluation training?

Play fairway analysis maps shared petroleum-system elements and risks across a region. Prospect evaluation focuses on a defined opportunity, its trap, targets, resources, geological chance, and decision readiness.

What is a common risk segment map in play fairway analysis?

A common risk segment map divides a play into areas sharing comparable geological risk for charge, reservoir, seal, trap, timing, or preservation and supports the identification of play sweet spots.

How are prospects generated from a play fairway?

Prospects are generated by integrating mapped play elements with seismic, well, structural, and stratigraphic evidence, then defining closures, targets, dependencies, uncertainty, resources, and geological chance.

How is a prospect portfolio ranked?

A prospect portfolio is ranked through consistent comparison of geological chance, resource ranges, dependencies, uncertainty, data gaps, strategic fit, and the evidence required for the next decision.

Conclusion

Participants take a Play Fairway and Prospect Inventory back to their organization. It connects petroleum-system evidence, element maps, common risk segments, leads, prospects, resource ranges, uncertainty, and portfolio ranking. Teams can use it to make exploration opportunities comparable, traceable, and ready for staged decisions.