

Petroleum Play Assessment

This is an Introductory course covering map-based integration of subsurface information on the various elements of petroleum systems. Quantitative prospect assessment involving Risking and Volumetric Uncertainties are applied to prepare prospects for portfolio ranking.

We start with fundamentals of basin analysis ("base of the exploration pyramid"), then move to construction of play element maps, overall play description, common-risk-segment mapping (CRS maps). The final portion of the course looks at how to place prospects into their proper play context (moving up to the top of the pyramid) and quantitative prospect assessment.

This course takes groups through these issues, fills any knowledge gaps in the essential technical fundamentals required for petroleum play assessment. Course content is based on real field data, and if requested, the client's specific field data can be adopted to create an asset focused event.

COURSE CONTENT

This course covers the following topics

- Contextualisation
- A short history of petroleum, prospects and play
- Levels of petroleum investigation
- Play elements
 - the source
 - the reservoir
 - the seal
 - the trap
 - migration/charge access
 - HC preservation
- Risk and uncertainty concepts
- Probability of Geological Success
- Prospective volumetrics

Duration

Full day 3 days

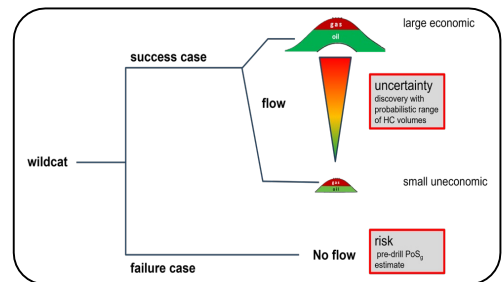
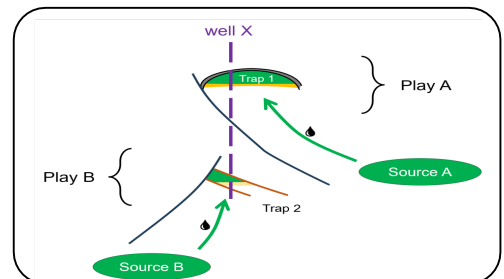
3 days in a classroom style event, onsite or offsite.

Learning Level

Skills ○○○
Knowledge ●●○
Awareness ●●●

Designed for:

The course is designed for exploration team members including geologists, seismologists, hydrogeologists. Further potential target groups are, Petrophysicists, reservoir engineers, economists, and other disciplines. The course is most effective when delivered to a mixed discipline group.



Course Tutors



Arndt Peterhänsel PhD
Arndt develops and runs courses in the E&P Overview, Reservoir, and Open Air series. He has a career background at University of Cambridge, Universität Potsdam, Saudi Aramco, Lukoil and TRACS. Arndt is a technical author, Global Head of Training (TRACS), and Lead in the geothermal FindHeat Horizon Europe programme.

