

Integrated Field Development Planning

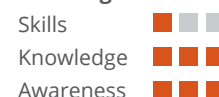
Designed for:

The course is designed for petroleum engineers, geoscientists, facilities engineers, commercial staff and other disciplines who expect to play a part in evaluating, screening and maturing oil and gas field development opportunities. The course is most effective when delivered to a mixed discipline group.

Duration (days)



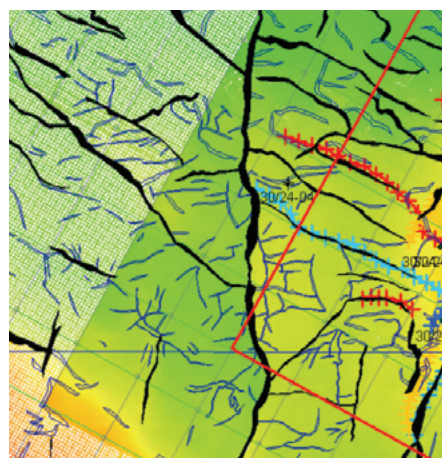
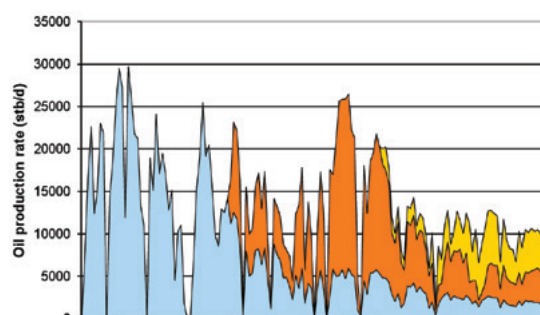
Learning Level:



The course is designed to give participants an appreciation of the evaluation and planning activities associated with taking an asset from pre-discovery to sanction.

Tools and methodologies are provided and practiced to illustrate how to deliver an assured project in a timely fashion. NOTE: Land and offshore versions of this course are available.

A two day session to explore reservoir, well, facility and commercial technology and business drivers is followed by a syndicate project (1.5 days) in which participant groups have to mature an opportunity from discovery to pre-sanction. The course closes after each syndicate has presented their projects to a "board of directors" for sanction.



Early Development
E&P Overview
Reservoir
Wells

Business & Risk
Open Air
Coaching
Master Class



Integrated Field Development Planning continued

Course Content:

Exploration and Appraisal

- Exploration evaluation and drilling techniques
- Log evaluation
- Mapping and volumetrics
- Risk and uncertainty analysis using Monte Carlo analysis
- Appraisal methods and value of information

Subsurface and surface development planning

- Selecting drive mechanisms

Generating and evaluating options

- Well design
- Production forecasting
- Selecting, sizing and costing facilities

Economic analysis of options

- Run project economics using spreadsheets

Process design for surface facilities

- Designing the process

Bringing the field to production

- Production development strategy; well sequencing

Managing production and well intervention

- Managing production decline;
 - well workovers
 - facilities maintenance
- Identifying and evaluating near-field opportunities
 - development plan for satellite field development
- Integrated exercise summarising the learning of the course
 - economic evaluation of incremental projects

Course Duration:

Content can be tailored to run from
3 to 5 days.

Course Tutors



Mark Graham BSc, CEng, MEI

Main Series tutoring: Master Class

Industry experience: over 30 years, petroleum engineering and economics

Career background: Schlumberger, Shell, AGR and TRACS

Personal: Author, 'Hydrocarbon Exploration and Production', Member of Energy Institute



Mark Cook BSc, MBA

Main Series tutoring: Early Development, Business & Risk, Reservoir Engineering

Industry experience: 40 years, reservoir engineering, economics and risk analysis

Career background: Shell, TRACS (Director) and AGR (VP)

Personal: Author, 'Hydrocarbon Exploration and Production' (Elsevier 2008), 'Petroleum Economics and Risk Analysis' (Elsevier 2021), SPE distinguished lecturer on Risk Analysis

Courses available from this series:

E&P Overview

Introduction to Exploration and Production

E&P for Technical Support Staff

Development and Production for Commercial Staff

Prospect and Development Engineering (offshore and land versions)

Field Development Planning

Mature Field Management

The Energy Transition – Key Components