PE Limited

Engineering & Geological Software Development

Advanced Integrated Production Modelling Course
5 Day Course

Target Audience:

This course is targeted to those engineers that have (i) attended the ***Standard* IPM** course previously, and (ii) have consolidated their familiarity of **MBAL**, **PROSPER** and **GAP** through consistent use over time.

This course will assume a base level of familiarity of the tools, and is intended promote the analytical features available in creating physics based field realisations in the **IPM** tools.

Specific Objectives

1. Developing advanced dexterity skills in using the **IPM** suite of programs
2. Understanding the phenomenon, and how the methods in the tools describe the phenomenon.
3. Understanding the physics phenomena and limitations of the mathematical description

Course Agenda:

Day 1

GAP / **PROSPER** / **MBAL**

Integrated Production Modelling Review
Water Cut and GOR Predictions
Building History Matched Reservoir Models

Day 2

GAP / **PROSPER**

Building a History Matched **IPM** *Model*
VLP Matching with Multiple Well Tests
Ensuring Consistency between Network and Well Models
Optimum Pipeline Configuration and Production Optimisation

Day 3

MBAL/ **OpenServer** & Workflows

Reservoir case studies using **MBAL***: using advanced matching strategies to achieve a history matched Reservoir.*
Using **OpenServer** *to automate tasks in* **PROSPER**, **GAP** *and then migrating to Visual Workflows in RESOLVE.*

Day 4

PVTp

Characterising an EOS starting with a fluid (Oil) PVT report
BO Validation using an Equation of state (EoS)
Characterising an EOS starting with a near critical fluid (condensate) PVT report

Day 5

MBAL, **PROSPER** & **GAP**

Powderhall Retrograde Condensate Workshop
Building a full field integrated model for a 4 reservoir / 5 wells field and analysing different field management options (Flow Assurance)

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