



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
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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)
