KBC Maximus Training

Agenda

Day 1 Morning session

Introduction to Maximus
- ➢ What is Maximus?
- ➢ Who uses it?
- ➢ Four important features of Maximus that distinguish it from other upstream steady-state thermo-hydraulic simulators
- ➢ Aims of this training course

1. Introduction to Maximus
   - Building Models in the GUI
   - Parameter Input
   - Snapshot vs. LoF Mode
   - Sensitivity Analysis Mode

2. A One Well Tieback
   - Pipe and Riser Geometries
   - The difference between snapshot and LoF
   - The difference between table model and source

3. Model Variables and Events
   - Logic to control what happens and when
   - What is a Model Variable?
   - What is an Event?

4. Allocation in a Two-Well System
   - Hydraulic Potential

5. Pre-Characterised Composition
   - Defining PVT properties in Maximus

Lunch

Day 1 Afternoon session

6. Characterising an Oil-Gas Composition
    - Characterising a Dry Oil Composition
    - Tuning a Composition to Data
    - The Role of Binary Interaction Parameters
    - Phase Diagram

7. Characterising a Composition with Wax
    - Plotting Phases

10. Production System with Wax and Hydrates

Day 2 Morning session

13. Subsea Gas Compression and MEG Injection Allocation
    - Hydrates inhibitor controller

14. Subsea Separation

16. Gas Lift Optimisation

Lunch

Day 2 Afternoon session

18. Corrosion Modelling

21. Reservoir tank models

22. Well stabiliser and wells offline

20. Maximus Challenge – Simple Network Analysis
    a. Put your training into practice on a set task.
    b. Find the best solution!

End