



## Reservoir Simulation Strategies - RSS

### COURSE

#### About the Course

This course is designed to give an introduction to the fundamental and practical aspects of modern reservoir simulation. Particular emphasis is placed upon the available data and its integration into a data set that reflects a coherent model of the reservoir. These aspects are reinforced with small practical examples run by groups of the course participants. The course is organized in morning lecture sessions and afternoon practical sessions.

This course covers conventional reservoirs.

*"Practical exercises. Liked understanding the theory and the problems/limitations that can arise."* - Reservoir Engineer, United Kingdom

*"All subjects were very important. The way that was concatenated the theory with real field examples."* - Reservoir Engineering Advisor, United States

#### Target Audience

Reservoir and petroleum engineers who will be actively using reservoir simulation.

#### You Will Learn

Participants will learn how to:

- Apply the principles of reservoir engineering to numerical modeling
- Set up, run, and analyze the results for single-well, pattern, and full-field models
- Prepare fluid and rock property data in the manner required for simulation studies
- Identify and eliminate causes of numerical problems
- Perform a history match
- Use the matched model to predict future performance under a variety of assumptions

#### Course Content

- Buckley Leverett displacement
- One dimensional water oil displacement

- Model components, types, and modern gridding methods
- Two dimensional displacement
- Grid orientation and refinement
- Routine and special core analysis
- Single phase up-scaling of geo-cellular model parameters

## Product Details

Categories: [Upstream](#)

Disciplines: [Reservoir Engineering](#)

Levels: [Intermediate](#)

Product Type: [Course](#)

Formats Available: [In-Classroom](#)

Instructors: [PetroSkills Specialist](#) [Richard Henry](#)