

**Training Title**

**PROPERTIES OF RESERVOIR FLUIDS**

**Training Duration**

5 days

**Training Venue and Dates**

DE038	PROPERTIES OF RESERVOIR FLUIDS	5	25-29 November 2019	\$6,500	London, UK
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In any of the 5 star hotels. The exact venue will be informed once finalized.

**Training Fees**

- 6,500 US\$ per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Buffet Lunch.

**Training Certificate**

Define Management Consultancy & Training Certificate of course completion will be issued to all attendees.

**TRAINING DESCRIPTION**

This course goes beyond the usual description of reservoir fluid properties. The underlying purpose is to be able to prepare the most accurate possible set of values of fluid properties for use in other engineering calculations. An understanding of the advantages of the application of both laboratory data and correlations will be provided. Extensive exercises are used to illustrate the principles and to test the consistency of measured data.

**TRAINING OBJECTIVES**

**Upon successful completion of this course, the delegates will be able to:**

- ✓ Identify the type of fluid in a particular reservoir and predict how that fluid will behave during production
- ✓ Read and QC PVT Reports
- ✓ Use laboratory data to determine values of fluid properties for use in engineering calculations, including Equation of State
- ✓ Use correlations to determine values of fluid properties in the absence of laboratory data

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- ✓ Select the best available fluid property correlations for oils, gases, and oilfield waters
- ✓ Shape PVT data to get the best results out of analytical and numerical software

### WHO SHOULD ATTEND?

Reservoir, production and facilities engineers who have a need to model the flow of oil, gas and water through reservoirs, wellbores, and surface facilities.

### TRAINING METHODOLOGY:

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions, and motivate everybody find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course. Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work & Practical Exercises
- 20% Videos & General Discussions

### DAILY OUTLINE

Fluid fundamentals

Dry gas models

Brine models

Wet gas models

Dead oil models

Black oil models

Volatile oil models

Gas condensate models

Fluid sampling

Laboratory tests

Reading a PVT report

Quality checks on a PVT report

Corrections to laboratory data

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Equations of State

Tuning Equations of State

NOTE:

Pre & Post Tests will be conducted

Case Studies, Group Exercises, Group Discussions, Last Day Review & Assessments will be carried out.



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