

**Training Title**

**RESERVOIR FLUID PROPERTIES: PREPARATION FOR RESERVOIR ENGINEERING AND SIMULATION STUDIES**

**Training Duration**

**5 days**

**Training Venue and Dates**

|   |          |                            |                |                   |
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| <b>Reservoir Fluid Properties: Preparation for Reservoir Engineering and Simulation Studies</b> | <b>5</b> | <b>22-26 January, 2024</b> | <b>\$5,500</b> | <b>Dubai, UAE</b> |
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**Trainings will be conducted in any of the 5 star hotels.**

**Training Fees**

- **5,500 US\$ per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Buffet Lunch.**

**Training Certificate**

**Prolific Consultants FZE Certificate of Course Completion will be issued to all attendees.**

**TRAINING OVERVIEW**

**COURSE 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. Accordingly, participants are encouraged to bring their own PVT laboratory data to deconstruct in class. Equations of State calculations are introduced, and a tuning exercise is conducted on commercial software.***

**COURSE OBJECTIVE:**

- **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**
- **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**

**SUITABLE FOR:**

*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 lecture and discussion sessions will be managed to maximize the amount and quality of information, knowledge and experience transfer. The sessions will start by raising the most relevant questions, and motivate everybody finding the right answers. The attendants will also be encouraged to raise more of their own questions and to share developing the right answers using their own analysis and experience.*

*All presentations are made in excellent colorful power point. Very useful Course Materials will be given.*

**COURSE OUT LINE:**

- *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*
- *Equations of State*
- *Tuning Equations of State*

**Case Studies, Role Plays, Videos, Discussions, Last Day Review & Assessments will be carried out.**

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