

PROPERTIES OF RESERVOIR FLUIDS



DRPT105
Drilling, Reservoir
& Petroleum
Training

COURSE TITLE

PROPERTIES OF RESERVOIR FLUIDS

COURSE DATE/ VENUE

07 - 11 February 2022

Kuala Lumpur, Malaysia

COURSE REFERENCE

DRPT105

COURSE DURATION

05 Days

DISCIPLINE

Drilling, Reservoir & Petroleum Training

COURSE INTRODUCTION

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.

This course covers both conventional and unconventional reservoirs.

COURSE OBJECTIVE

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
- ✓ 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

COURSE AUDIENCE

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

COURSE CONTENT

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



COURSE CERTIFICATE

TRAINIT ACADEMY will award an internationally recognized certificate(s) for each delegate on completion of training.

COURSE FEES

\$5,650 per Delegate. This rate includes participant's manual, Hand-Outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

COURSE METHODOLOGY

The training course will be highly participatory and the course leader will present, guide and facilitate learning, using a range of methods including formal presentation, discussions, sector-specific case studies and exercises. Above all, the course leader will make extensive use of real-life case examples in which he has been personally involved. 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.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Case studies & Practical Exercises
- 10% Role Play
- 10% Videos, Software or Simulators (as applicable) & General Discussions