

# Advanced PVT Course

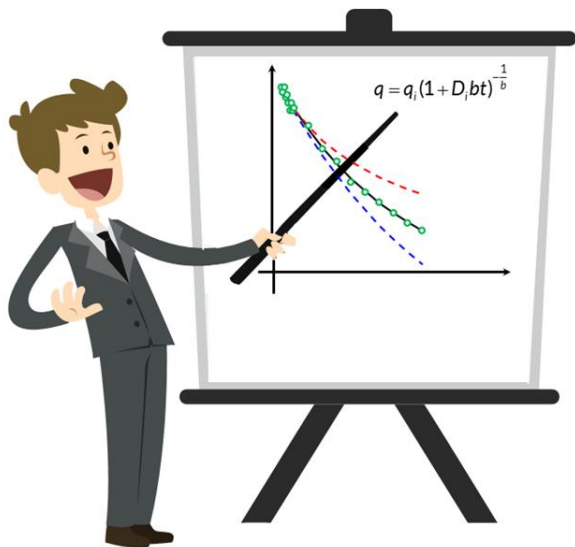
Advanced PVT and EOS Fluid Characterization, 5-day

## Course Goals

The main objective of the course is to go through the “PVT value chain”. We start with the fluid sampling, walk you through different laboratory procedures and go into the details of what is important both before and after EOS model development. Lastly, we apply this knowledge to real engineering problems. The course is designed to be practical, and as a participant you will be exposed to both real data and actual industry problems.

## Audience

Engineers that are exposed to advanced modeling of petroleum fluids, e.g. reservoir, production and processing engineers. Typically reservoir or flow assurance engineers.



## Course Outline & Topics

The course contains lectures with associated exercises and problem sets. Over the 5 days, the following topics will be covered

- Fluid Phase Behavior & Basic PVT Properties
- Fluid Sampling & PVT Lab. Measurements
- Lab Report Quality Checks (QC)
- Cubic Equations of State (EOS)
- VLE Calculations & Intro to PVT simulators
- Heptanes Plus/C7+ Characterization
- Tuning of Equation of State Models
- Lumping/De-lumping (Pseudoization)
- Thermodynamic Consistency of EOS Models
- Preparing PVT Data for Reservoir Simulation

Other topics can be covered upon request.

## Lecturers

Consultants in **whitson**

## Further Information or Inquiries

Please send an e-mail to [carlsen@whitson.com](mailto:carlsen@whitson.com).