

TRAINING COURSE ON

ADVANCED RESERVOIR SIMULATION (DESIGN, APPLICTION AND ASSESSMENT)



ADVANCED TRAINING CENTER - ATC

Ba Ria Vung Tau Province 762 Cach Mang Thang Tam Street, Long Toan Ward, Ba Ria City Ho Chi Minh City Lot E2b-5, Saigon Hi-Tech Park, Tan Phu Ward, Thu Duc City **Ha Noi** VPI Tower, 167 Trung Kinh, Yen Hoa, Cau Giay



Talent for Development





TRAINING COURSE ADVANCED RESERVOIR SIMULATION (Design, appliction and assessment)

GENERAL INFORMATION

This 5-day advanced reservoir simulation course is designed to give engineers and geoscientists a practical understanding of the strengths, limitations and effective use of reservoir simulation in field evaluation studies. The course focuses on a number of key topics not normally discussed in reservoir simulation courses or well understood even by experienced practitioners of reservoir simulation.

COURSE OUTCOME

By the end of the course, participants should be gain the knowledge about:

- Fundamental of reservoir simulation (applications, types of reservoir simulation, mathematical model,...)

- Reservoir simulation data input and output
- Gridding reservoir simulation (conventional, up-scaling,...)
- Initializing in reservoir simulation (PVT, Scal,...)
- Reservoir simulation for forecasting
- Case study (multilayer, high-heterogeneity reservoir, gas reservoir,...)

COURSE CONTENT

Day 1: Fundamental of reservoir simulation

- What is reservoir simulation and purposes
- Types of simulation programs
- Equations in reservoir simulation
- Input and output of reservoir simulation

Day 2: Pre-processing for simulation

- Static model and gridding for simulation
 - Up-scaling
 - Faulting
 - Properties calculation
- PVT, SCAL & equilibriums

Day 3: Initialization and history matching

- Model initialization
- Data preparation for history matching

- History matching work-flow

Day 4: History matching (Cont.) and forecast

- Case study: gas reservoir with aquifer
- Forecast for gas reservoir

Day 5: History matching (Cont.) and forecast

- Case study: history matching for comingle wells in high-heterogeneity reservoir
- Forecast with infill well
- Building PVT fluid models, relative permeability lines, equilibrium phase for gas reservoirs, gas condensate reservoir;
- Properties and characteristics of VFP for gas wells and gas condensate wells in history matching and forecast.

WHO SHOULD ATTEND

The course is intended for engineers and managers aiming at getting an advanced reservoir simulation studies.

TIME AND VENUE

- Duration: 05 days;
- Estimated time: 24th 28th October, 2022;
- Venue: Ho Chi Minh city.

INSTRUCTOR

Expert from PVN, oil and gas company, share the case study....

TRAINING FEE

20.000.000 VND/participant (training fee, materials, certificate, tea-break included). The course will be organized when the amount of registration reaches 08 participants.

A discount of 25% on the tuition fees (**15.000.000 VND/participant**) is offered to group of 05 participants.

HOW TO APPLY

Please send authorized Application by fax or email to Advanced Training Center (ATC) mentioning full name, gender, background, phone number and email of participant(s).

CONTACT

TRUNG TÂM BỔI DƯỮNG NÂNG CAO | ADVANCED TRAINING CENTER

TRƯỜNG ĐẠI HỌC DẦU KHÍ VIỆT NAM PETROVIETNAM UNIVERSITY Adress: 762 Cach Mang Thang Tam Street, Long Toan Ward, Ba Ria City, Ba Ria Vung Tau Province Tel.: +84 25 4373 8879 Fax: +84 25 4373 3579 Cellphone: 0909.656.998 Office in Ho Chi Minh city: Lot E2B-5, Saigon Hi-Tech Park, Ward Tan Phu, Thu Duc city. Office in Hanoi: 4th Floor, VPI Tower, 167 Trung Kinh, Yen Hoa, Cau Giay



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