

Training - Well Performance



WPERF-EN-P



Face-to-face only



5 days

This course provides a comprehensive understanding of well lift optimization

Level

Knowledge

Public

- E&P technical staff involved in well operations
- Reservoir engineers involved in field studies with productivity and artificial lift issues
- Development engineers involved in conceptual design with well architecture and artificial lift

Objectives

Attendees will be able to implement the following skills:

- select the relevant reservoir characteristics and fluid properties related to well performance modeling
- design artificial lift and select the adequate method
- optimize well performance
- analyze the impact of well completion and equipment on well performance
- analyze the operation process

Assessment of achievements

- Trainees are assessed throughout the training through practical application phases and interactions with the trainer
- A final on-the-spot evaluation may also be carried out at the end of the course and/or at the end of each module using tests designed to verify the learners' understanding and assimilation of the knowledge linked to the training objectives

Prerequisites

No prerequisites are necessary to follow this course

Responsible

IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

PVT & RESERVOIR FUNDAMENTALS

0.5 day

Oil & Gas PVT properties: bubble point, Bo, Rs, GOR, solids...
Reservoir rock and fluids: porosity, permeability, saturation, relative permeability.
Reservoir behavior types.

RESERVOIR-WELLBORE INTERFACE FUNDAMENTALS

0.25 day

Pay zone drilling, completion (open hole, cased hole), perforating.
Wellbore treatment: sand control, stimulations (acidizing, hydraulic fracturing).

INFLOW PERFORMANCE	0.75 day
Flow in the reservoir: Productivity Index (PI), empirical Inflow Performance Relationship (IPR), horizontal wells. Back pressure equation for gas wells. Global skin: formation damage, perforation, partial penetration, deviation. Applications - Exercises.	
OUTFLOW PERFORMANCE	0.75 day
Flow in the wellbore: pressure gradient and Vertical Lift Performance (VLP) curves. GLR, tubing head pressure, tubing ID impact. Monophasic vs. polyphasic flow: minimum flowrate/well loading. Applications - Exercises.	
WELL PERFORMANCE	0.75 day
Well deliverability nodal analysis: inflow/outflow. Well performance modeling, prediction and analysis vs. reservoir pressure, PI, GLR, BSW, tubing ID. Applications - Exercises.	
ARTIFICIAL LIFT	1.5 days
Gas lift: fundamentals, unloading procedure, surveillance and troubleshooting. Electrical Submersible Pump (ESP): components, design, problems. Rod pumping and jet pumps fundamentals. Comparison of the artificial lift methods.	
INTRODUCTION TO PROSPER™	0.25 day
Overview of well performance software tool and methods. PROSPER™ methodology for gas lift design and troubleshooting, manual application. PROSPER™ methodology for ESP troubleshooting.	
KNOWLEDGE ASSESSMENT	0.25 day

Sessions

Pau - From 10/19/2026 to 10/23/2026

4320 €/HT

To French entities : IFP Training is referenced to DataDock ; you may contact your OPCO about potential funding.
Please contact our disabled persons referent to check the accessibility of this training program : referent.handicap@ifptraining.com