Formation - Well Performance

WPERF-EN-P | Présentiel | 5 jours

This course provides a comprehensive understanding of well lift optimization

Niveau

Fondamentaux

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

Objectifs

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

Évaluation des acquis

- 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

Prérequis

No prerequisites are necessary to follow this course

Responsable

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

Programme

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).

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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 - Du 19/10/2026 au 23/10/2026 — **4320 €/HT**

IFP Training est référencé au DataDock. Rapprochez-vous de votre OPCO pour connaître les possibilités de financement de cette formation.
Pour vérifier l'accessibilité de cette formation à une personne en situation de handicap, contactez notre référent à l'adresse suivante : referent.handicap@ifptraining.com

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