

Training - Well Productivity and Reservoir - Wellbore Interface



PPLCT-EN-P



Face-to-face only



5 days

This course provides the knowledge and skills needed to optimize the reservoir-wellbore interface and well productivity

Level

Knowledge

Public

Young engineers involved in drilling/completion, supervisors in charge of drilling pay zone, and production professionals concerned with well productivity

Objectives

Attendees will be able to implement the following skills:

- select a reservoir-wellbore interface adapted to the conditions encountered in the reservoir
- detect problems holding down productivity and select adequate solutions
- determine the flow potential of the well
- understand the different perforation methods & their selections
- perform a design of tubing diameter according to production objectives

Pedagogical & technical resources

- Numerous exercises on the influence of key parameters
- Numerous animations and videos
- Summary notes prepared and presented by the participants
- Application to a real case (project) for the participants in the “Drilling & Completion Engineering” training course

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

NECESSARY FUNDAMENTALS OF RESERVOIR ENGINEERING FOR COMPLETION

1 day

Main parameters about the rock-fluid couple: porosity, permeability, saturation.

Means of reservoir knowledge: core, logging, well test.

PVT study: PV diagram, PT diagram, terminology (bubble point, dew point, Rs, Bo, Bg, GOR, WOR...).

Drainage mechanisms: primary, secondary and enhanced recovery.

COMPLETION FUNDAMENTALS

0.5 day

Completion: operations involved, main phases.

Main factors influencing completion design.

Completion configurations: fundamental requirements, main configurations.

Main completions of gas storage wells and Geothermal wells

WELL PRODUCTIVITY (PART 1)

1 day

Fundamentals: overall approach of the well flow capacity:

- Inflow (study of the bottom hole pressure from the upstream side): main parameters, Productivity Index (PI), global skin and flow efficiency.
- Outflow (study of the bottom hole pressure from the downstream side): case of oil wells and case of gas wells.
- Analysis of inflow and outflow performance curves, need for artificial lift.

RESERVOIR WELLBORE INTERFACE IMPLEMENTATION (EXCLUDING “WELLBORE TREATMENTS”)

1 day

Specific aspects linked to drilling and cementing the pay zone.

Perforating: main techniques, key parameters for productivity.

Specific case of horizontal drains.

WELL PRODUCTIVITY (PART 2)

1 day

Additional information about PI:

- Productivity index and flow regime.
- Inflow performance below bubble point pressure (IPR).

Additional information about skin:

- Components of completion skin.
- Damage skin estimation.

KNOWLEDGE ASSESSMENT

0.5 day

Sessions

Pau - From 02/02/2026 to 02/06/2026

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