

Training - Well Operation and Testing



WELLOP-EN-P



Face-to-face only



5 days

This course provides a comprehensive knowledge for the monitoring of eruptive and activated wells, as well as the monitoring and validation of well tests

Level

Knowledge

Public

Experienced method engineers, technicians and operators involved in well monitoring in Oil & Gas production facilities

Objectives

Attendees will be able to implement the following skills:

- List equipment comprising eruptive and activated wells, including surface equipment for gas lift
- Analyze well behavior and well material balance
- Efficiently identify abnormal conditions on eruptive and activated wells
- Efficiently operate and monitor gas lifted wells, monitor wells safety test
- Troubleshoot activated wells instabilities for tests validation

Pedagogical & technical resources

- Highly interactive training by industry specialist lecturers
- Several applications on eruptive and activated well dynamics
- Several exercises on well material balance following well test

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

ESSENTIALS OF RESERVOIRS & WELL EQUIPMENT

0.5 day

Hydrocarbon in place. Composition and volume.
Permeability/porosity/reservoir/borehole interface. Productivity Index (IP).

Various completions; eruptive wells/activated wells.

Role of completion.

Hydrostatic and dynamic wells:

- Conditions for eruptive wells.
- Notions of fluid flow. Pressure drop/skin effect.

ARTIFICIAL LIFT

2.5 days

Stimulation and activation principle.

The various methods of activation.

Well activation by gas lift:

- Gas lift principle.
- Pros and Cons.
- Bottom hole and surface gas lift equipment.
- Gas lift valve: role/technology.
- Start-up methods in gas lift well.
- Operation of multiple wells.

WELL INTERVENTIONS - WORKOVER, WIRELINE, METROLOGY - SAFETY

1 day

Heavy/light wells intervention. Equipment.

Wireline/workover operations.

Metrology associated with the operating mode for eruptive or activated wells.

Downhole and surface safety equipment.

Safety levels.

WELL MONITORING & TESTING - TEST SEPARATOR

1 day

Test separator:

- Equipment, metrology and test separator control.
- Control and stability of tested well.
- Metering equipment.
- Wells parameters determination: GLR, GOR, WOR, BSW, Specific gravity...
- Sampling procedure.

Multi-Phase Flow Meter (MPFM):

- Operating principle and equipment technology.
- Results analysis.

Stability control and well test validation.

Potential problems. Tuning difficulties: analysis, solutions.

Troubleshooting of gas lift wells.

Troubleshooting of wells activated by Electric Submersible Pump (ESP).

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