Training - Progressing Cavity Pump

PCP-EN-P

Face-to-face only

5 days

This course provides a comprehensive knowledge and know-how of Progressing Cavity Pump Equipment & operation. To identify and troubleshoot most common operations issues.

Level

Knowledge

Public

Completion, Artificial lift or petroleum engineers & technicians.

Objectives

Attendees will be able to implement the following skills:

- Explain eruptive or assisted well dynamics, and the operating principles of downhole and surface equipment
- Know the PCP principle, main components and their functions
- Understand installation procedures
- Ensure a proper monitoring and troubleshooting

Pedagogical & technical resources

- Very interactive training by industry specialists
- Numerous teamwork exercises

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

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

Program

HYDROSTATICS & WELL DYNAMICS — 1 day

Pressure Gradient. Condition for eruptive well:

- Fundamentals of fluid flow. Pressure drop/skin effect.

Wells activation method, operating principle:

- Evolution of reservoir parameters.
- Common activation methods.

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- Comparison and selection of activation methods.

PROGRESSING CAVITY PUMP PINCIPLE — 0.5 day

Moineau principle theory.
PCP advantages.
PCP Parameters.
Operating a PCP.

PROGRESSING CAVITY PUMP EQUIPMENT — 1 day

PCP range of pump: Rotor & stator geometry, characteristics & failure modes.
Tubing string.
Rod string.
Downhole accessories.
Surface equipment (Drive Head, VSD).
Installation tools.
Elastomers: properties, limits in use for oil & gas application, selection & failure analysis.

PCP SLECTION GUIDELINES — 1 day

PCP selection check list.
Downhole Equipment Sizing.
Surface Equipment Sizing.

PCP INSTALLATION PROCEDURES — 1 day

Check list.
Stator and Rotor installation.
Space out.
Drive head Installation.
Troubleshooting & Analysis.

CASE STUDY — 0.5 day

KNOWLEDGE ASSESSMENT — 0.25 day

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

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