Formation - ESP Pumps Design, Installation and Troubleshooting

ESPP-EN-P | Présentiel | 5 jours

This course provides a comprehensive, practical knowledge of centrifugal pumping concepts (Electrical Submersible Pumps), design, operations and potential problems

Niveau

Fondamentaux

Public

All personnel involved in the design, installation, operation, and troubleshooting of ESP pumps

Objectifs

Attendees will be able to implement the following skills:
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- select the ESP pump adapted to the well conditions,
- analyze operating conditions,
- improve performance and manage equipment lifetime

Pédagogie & ressources techniques

- Participative lecturing
- Several animations & videos
- Numerous exercises on equipment calculations.

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

Basic knowledge of well performance

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

WHY ARTIFICIAL LIFT? — 0.5 day

Main types of intervention: measurement, maintenance, workover.
Main parameters relative to reservoir and well performance curve: inflow and outflow.
Need for artificial lift...

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ELECTRICAL SUBMERSIBLE PUMP (ESP) — 2 days

Principle, field of application.
Main specific pieces of equipment: pump, seal section/protector, electric motor selection, Variable Speed Drive (VSD) interaction.
Operating procedures and troubleshooting (including PROSPER™ methodology).

ESP DESIGN — 1.25 days

Base case: oil “without problems”.
Specific cases: gassy oil well, ESP with VSD.

INSTALLATION PROCEDURES — 0.5 day

RIH procedures & POOH procedures.
Best practice.

OTHER METHODS & PROCESS SELECTION — 0.5 day

Overview of other methods (SRP, hydraulic pumps, jet pumps, Progressive Cavity Pumps [PCP]): principle, fields of operation.
Artificial lift methods comparison, benefits and limitations.

KNOWLEDGE ASSESSMENT — 0.25 day

Sessions

Pau - Du 08/06/2026 au 12/06/2026 — **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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