Training - ESP Pumps Design, Installation and Troubleshooting

ESPP-EN-P | Face-to-face only | 5 days

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

Level

Knowledge

Public

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

Objectives

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

Pedagogical & technical resources

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

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

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

Program

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 - From 06/08/2026 to 06/12/2026 — **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

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