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Type and Selection of Artificial Lift

COURSE OVERVIEW

This technical course provides a practical introduction to the types, selection, and application of artificial lift systems used to enhance oil and gas production. It explains how different lift methods work, where they are best applied, and how reservoir, well, and surface conditions influence lift performance, economics, and reliability. Participants are guided through the decision process for choosing suitable artificial lift options across field life, from initial design to optimization and troubleshooting, and reduction of operating costs to improve asset performance.

WHO SHOULD ATTEND?

The course is designed for production, petroleum, and reservoir engineers, field and operations engineers, production technologists, and asset or field development team members involved in well and production optimization. It is also suitable for technical managers, completion engineers, and service-company professionals who need a working understanding of artificial lift options and selection criteria.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Identify the main types of artificial lift and their operating principles.
- Match artificial lift methods to reservoir, fluid, and well conditions.
- Apply key technical and economic criteria for artificial lift selection.
- Recognize common operational issues and basic troubleshooting approaches.
- Interpret production and well data to evaluate artificial lift performance.
- Contribute to field development and optimization plans that involve artificial lift.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- Overview of major lift systems: rod pump, ESP, gas lift, PCP, hydraulic, and others.
- Selection workflows and decision trees for new and existing wells.
- Design considerations: inflow performance, nodal analysis, and system constraints.
- Operational best practices to improve run life and reduce interventions.
- Simple economic screening and lifecycle considerations for lift options.
- Case-based discussions illustrating artificial lift decisions across different field contexts.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.
1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded