Training Title

OPTIMIZATION OF OIL PRODUCTION USING ARTIFICIAL LIFT SYSTEMS)

Training Duration

5 days

Training Venue and Dates

REF DE021	Optimization of Oil Production Using Artificial Lift Systems	5	30 Sep – 04th Oct 2024	$6,750	London, UK

In any of the 4 or 5-star hotels. The exact venue will be intimated upon finalization.

Training Fees

- **$6,750 per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Lunch.**

Training Certificate

Define Management Consultancy & Training Certificate of course completion will be issued to all attendees.

TRAINING INTRODUCTION

This 5-day course emphasizes the role of engineers and field operators in planning and executing Artificial Lift Operations to optimize field production in oil fields and thus add to the profitability and recoverable reserves. It also emphasizes the significance of the team concept as a factor in optimizing operations success. The course is highlighted with open discussions and problem solving shared by the instructor and participants.

By the end of this course, attendees will have a working knowledge of the industry's advanced technologies in field of designing and installing artificial lift systems in their respective heavy oil operations. They will have knowledge of selecting the appropriate type of Artificial Lift for a heavy oil production.

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TRAINING OBJECTIVES

To provide an in-depth knowledge of the theoretical and practical aspects of Artificial Lift optimization in Oil Production. At the end of the this course delegates will learn about the different Artificial Lift systems used in oil production, and how to design an Artificial Lift system, and how to install a system.

WHO SHOULD ATTEND?

- **Production Engineers and managers.**

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- **Reservoir engineers.**
- **Completion and Workover Engineers**
- **Feld maintenance supervisors and operators.**
- **Service companies and equipment manufacturing engineers.**
- **Safety engineers and personnel selected by their companies for attending special training courses.**

TRAINING METHODOLOGY:

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions and motivating everybody to find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of the multiple-choice type will be made available on a daily basis to examine the effectiveness of delivering the course.

Very useful Course Materials will be given.

- **30% Lectures**
- **30% Workshops and work presentation**
- **20% Group Work& Practical Exercises**
- **20% Videos& General Discussions**

DAILY OUTLINE

Day One: Oil Production – Inflow and Outflow Relationships

- **Heavy Oil Reservoir performance: wellbore and reservoir performance overview**
- **Pressure loss in the wellbore**
- **Well productivity**
- **Concepts of productivity index**
- **Inflow and outflow relationships**

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Day 2: Artificial lift technology

- **Overview of artificial lift technology: sucker road pump design, hydraulic pump design, jet pump, gas lift, Electric Submersible Pump (ESP)**
- **Application of artificial lift technology and its limitations**
- **Artificial lift screening methods**

Day three: Sucker Rod Pumping,

- **Sucker rod pump concept**
- **Limitations and advantages of the sucker rod pumping system**
- **Components of the sucker rod pump**

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- **Design of the sucker rod pump**
- **Troubleshooting of the sucker rod pump systems**

Day four: PCP and ESP Systems

- **Concept of the Progressing Cavity Pump (PCP) pumps**
- **Limitation and advantages of the PCP pumps**
- **Best practices for installation and maintenance**
- **Troubleshooting of PCP pumps**
- **New technology of PCP pumps**
- **Concept of the Electric Submersible Pump (ESP) system**
- **Equipment and accessories of the ESP systems**
- **ESP design: pump performance curves, pump intake curves, typical problems, installation, troubleshooting; best practices for installation and maintenance;**
- **Steps to correctly size an ESP system. basic sizing principles for the pump, motor and cable**
- **Importance of correctly matching well productivity to pump performance**
- **Use of data to diagnose well/equipment problems**
- **Limitations and advantages of the ESP system**

Day 5: Heavy Oil Production Optimization

- **Applications of Artificial Lift to optimize heavy oil production.**
- **New Artifical lift Technologies**
- **Case Studies**
- **Open discussion on client cases.**

NOTE:
Pre & Post Tests will be conducted.
Case Studies, Group Exercises, Group Discussions, Last Day Review &Assessments will be carried out.

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