

ARTIFICIAL LIFT SYSTEMS

PRD007

COURSE DESCRIPTION

When oil or gas is being produced, the reservoir pressure reduces. At a certain point in time it can happen that the pressure in the reservoir becomes too low for production and artificial lift can be required. This 5-day course covers the artificial-lift methods and technologies fall into two groups, those that use pumps and those that use gas. It provides information and concentrate on the proper selection, operation and maintenance of subsurface pumps so the best economical life can be obtained.

COURSE GOAL

To enhance the participants' knowledge, skills, and attitudes necessary to understand the artificial-lift methods and technologies specially the proper selection, operation and maintenance of subsurface pumps so the best economical life can be obtained.

COURSE OBJECTIVES

By the end of this course, participant will be able to:

- Understand fluid properties and reservoir performance.
- Review of flowed properties.
- Understand fluid properties.
- Understand the relationship between natural flow artificial lift.
- Be aware of artificial lift technology.
- Understand Nodal analysis.
- Select lift system.

WHO SHOULD ATTEND

- Supervisors.
- Production Engineers.
- S. Operators.

COURSE DURATION

5 Working Days



COURSE OUTLINES

- Fluid Properties.
- Natural flow & artificial lift.
- An overview of artificial lift technology.
- Reservoir performance.
- Nodal Analysis.
 - Pressure losses in well systems.
 - Optimizing well performance.
- Artificial lift screening – selection criteria of lift system.
- Gas lifts design & operation.
- ESP intake curves.
- ESP Design, Installation & Troubleshooting.
- Hydraulic Pumping.
- Beam Pumping.

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