

# PRODUCTION PROBLEM SOLVING

## PRD017

### COURSE DESCRIPTION

In this course, participants will master how to define their production problems, to understand their root causes, and how best to implement solutions. Participants will learn to apply various models and techniques to enhance the creativity of their teams in solving problems and implementing decisions. Participants will also have the opportunity to develop a concrete action plan for achieving their goals.

### COURSE GOAL

To enhance the participants' knowledge, skills, and attitudes necessary to solve production problems.

### COURSE OBJECTIVES

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

- Have an overview of common problems that cause low oil/gas rates.
- Identify reservoir caused Problems.
- Be familiar with well bore Problems.
- Be familiar with contaminants – caused problems.
- Be familiar with surface Piping and other sources of problems.
- Deal with artificial lift problems.

### WHO SHOULD ATTEND

- Supervisors.
- Production engineers.

### COURSE DURATION

5 Working Days

### COURSE OUTLINES

- Overview of common problems that cause low oil/gas rates.
- Reservoir Caused Problems.
  - Productivity (PI / IPR)
  - Skin
  - Low Permeability
  - Low Reservoir Pressure

- Well bore Problems
  - Tubular Sizing
  - Multiphase Flow Impact
  - Scale, Paraffin, Emulsions.
- Contaminants – Caused Problems.
  - Corrosion
  - H<sub>2</sub>S and CO<sub>2</sub>
- Surface Piping & other sources of problems.
  - Flow-line Size.
  - Restrictions.
  - Slugging.
- Artificial Lift Limitations
  - Gas Lift Problems and Detection Methods
  - Electric Submersible Pump Problems
  - Rod Pump Problems.
- Production equipment malfunctioning.
- Proven techniques of troubleshooting.

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