

## Sucker Rod Pumping

Reference : SRP - E

### Who should attend

*Petroleum and Production Engineers and operations staff responsible for designing lift installations and performing surveillance and optimization on wells using lift techniques.*

### Instructors

*Hesham ABDELLATIF  
Mahmoud ABDEL FATTAH*

### Duration

*5 days*

### Location

*Laarich Field—SODEPS*

### Language

*English*

## Course Content (1/2)

- Introduction to reservoir drive mechanism
  - Classification of reservoirs based drive mechanism
  - Basic equation for pressure measurements
  - Types of down hole pressure
- Introduction to artificial lift system
  - Rod pumping system major components
  - Surface equipment's
  - Prime movers
  - Sucker rods
  - Down hole pumps
- Surface pumping units
  - Functions of pumping units
  - pumping unit designations
  - API pumping unit sizes
  - pumping unit nomenclature
  - gear reducers
  - gear design
  - housing design
- API classifications of crank balanced pumping units
- Un-conventional pumping units
- Prime movers: types , consideration , preventative maintenance
- Sucker rod string
  - conventional sucker rods
  - continuous sucker rods

**Hesham ABDELLATIF**

Petroleum Engineer with 28 years of experience in subsurface production engineering, operations, field management, ALS technical support, ALS leader in both onshore and offshore fields.

**Mahmoud ABDEL  
FATTAH**

B. Sc. In Petroleum Engineering 2000. 13 years of experience as Application Engineer, Operation Supervisor, Field Engineer... Expert in oil industry related software such as Q-ROD, Perform and GasLIFT...

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## Course Content (2/2)

- API nomenclature of sucker rods
  - Special rods for large loads/torque
  - high strength , high torque sucker rods
  - sucker rods coupling
  - change-over and polish rod coupling
  - molded-on rods guides
  - wheeled rod guides
  - sinker bar
  - stabilizer bar
  - polished rods
  - rod rotators
- Care and handling of sucker rods
- Down hole rod pump
  - types of rod pumps
  - insert tubing
  - API pump designation
  - types of insert pumps
  - types of tubing pumps
  - primary parts of pump
  - special pumps.
- Acoustic fluid level and dynamometer survey.
- Design of rod pumping system
- Rod pumping system trouble shooting
  - fluid pound
  - gas interference/gas pound
  - gas locking

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