

BASIC COMPLETION PROGRAM

DRL015

COURSE OVERVIEW

This 5 days course is designed to provide participants with a comprehensive understanding of completion equipment and operations. The course covers various aspects of completion technology and principles, as well as the different types of completion and their design considerations.

COURSE OBJECTIVES

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

- Demonstrate an in-depth understanding of completion equipment and operations.
- Identify the factors that affect completion design, such as well condition, depth, formation type, and production interval.
- Apply the principles of well hydraulics, tubing stretch and selection, gas velocity, and partial pressure in completion operations.
- Recognize and describe the basic completion equipment, including packers, flow control equipment, safety valves, and completion accessories.
- Differentiate between various types of completions, such as single/selective, dual, lateral, monobore, and gravel pack completions.
- Design and set up a completion by performing tubing movement calculations, selecting appropriate metals and elastomers, and considering other design factors.
- Execute field applications of completion operations, including equipment check, run, set, pre-assembly, testing, space out, running precautions, and setting/testing the completion.
- Apply the acquired knowledge and skills to plan, oversee, and execute completion operations in operator companies and service contractors

WHO SHOULD ATTEND

Those who are responsible for planning overseeing, and executing completion operator companies and service contractors.

COURSE DURATION

5 Working Days

COURSE OUTLINES

1. Pre course evaluation

2. Introduction to Completion Technology

3. Factors Effects Completion Design

- Well Condition.
- Well Depth.
- Formation Type.
- Production Interval.

4. Completion Principals

- Well Hydraulics.
- Tubing Stretch / Selections,
- Gas Velocity.
- Partial Pressure.

5. Basic Completion Equipment

- Packers
 - Permanent Packers.
 - Retrievable Packers (Hydraulic- Hydrostatic- Mechanical).
- Flow Control Equipment.
- Safety Valves.
- Completion Accessories (Exp. Joint- Flow Coupling-Blast Joint)

6. Type of Completion

- Single / Single Selective.
- Dual.
- Lateral.
- Monobore.
- Gravel Pack.

7. How to Design & Set Up a Completion

- Tubing Movement Calculations and analysis.
- Metal Selection.
- Elastomer Selection.

8. Field Applications (Check -Run – Set)

- Equipment List / Part Number.
- Check up List.
- Equipment Dimensions (OD – ID - Length).
- Equipment Pre-Assembly, Testing and Space Out.
- Running Precautions.
- Setting/ Testing and Well sketch.

9. Post course evaluation.

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