

CEMENTING TECHNOLOGY

DRL012

COURSE DESCRIPTION

Cementing is a difficult operation and the quality of the result depends on many factors associated with: the state of the open hole section; the equipment and materials employed; the fluids used; the procedures applied. This course presents methods and procedures to be applied at the well site. The course covers drawing up the cementing program; Different types of cementing; Setting cement plugs to combat lost circulation; and Causes of failure in casing cement jobs and remedies.

COURSE GOAL

To enhance participants' knowledge, skills, and abilities necessary to understand the process of bonding the pipe to the formation on other operation in drilling or completion process.

COURSE OBJECTIVES

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

- Draw up the cementing program.
- Identify different types of cementing.
- Set cement plugs to combat lost circulation.
- Explain causes of failure in casing cement jobs and remedies.

WHO SHOULD ATTEND

- Drilling Engineers.
- Drilling supervisors with over tow years working experience in drilling engineering operations.

COURSE DURATION

5 Working Days

COURSE OUTLINES

1. Drawing up the cementing program:

- Cement classes according to API specifications.
- Slurries.
- General information on flow regime and on spacers.
- Mud conditioning before cementing.

2. Different types of cementing:

- One-stage cementing and two-stage cementing.
- Cementing with stinger.
- Cementing a liner.

3. Setting cement plugs to combat lost circulation:

- Thixotropic slurries, cement gels, cement slurries without additives, and their placement.
- Plaster Diesel Oil Cement (PDOOC) and Diesel Oil Cement (DOC), and their placement.

4. Causes of failure in casing cement jobs and remedies:

- Losses during slurry placement.
- Slurry over-displacement.
- Lack of tightness of the cement sheath.
- Flash set.
- Setting defect.
- Lack of mechanical strength.
- Cement deterioration.
- Casing disconnection.

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