

ADVANCED WELL CONTROL

DRL008

COURSE DESCRIPTION

This course reviews classic pressure control procedures and covers non-classic well control procedures. Participants will not only know classic well control procedure but will thoroughly understand it and they be able to evaluate kick situations to determine the safest means to handle the kick with equipment on hand, and handle confidently both principles of gas expansion and pressure and proper hands-on response on the chokes. All material contains the most up-to-date technology available in pressure control, both in theory and from hands-on experience, and comes from the instructor's extensive education and numerous experiences in well control.

COURSE GOAL

To enhance the participants' knowledge, skills, and ability necessary to evaluate kick situations and determine the safest means to handle these situations with equipment on hand, and handle confidently both principles of gas expansion and pressure and proper hands-on response on the chokes.

COURSE OBJECTIVES

By the end of this course, participant will have covered:

- Properly design surface equipment.
- Apply classic pressure control procedures (Wait & Weight and Driller's Method).
- Recognize causes and indications of a kick.
- Apply pressure control procedures while tripping.
- Recognize non-classic well control problems.
- Design and evaluate non-classic well control procedures.
- Interpret surface pressures and other well data.
- Apply fluid dynamics to well control.
- Evaluate and kill wells with underground blowouts.
- Use firefighting and capping procedures.
- Design relief well operations.

WHO SHOULD ATTEND

- Drilling, production and operations engineers.
- Field supervisors.
- Tool-pushers and managers with a good understanding of classic well control procedures.

COURSE DURATION

5 Working Days

COURSE OUTLINES

- Well control management, methods and primary well control.
- Blowout prevention (BOP) and well control equipment.
- Causes of kicks, kick warning signs and diverting shallow gas kicks.
- Handling kicks while out of the hole and in special situations.
- Kick tolerance and leak-off test interpretation.
- Driller's and Wait and Weight method.
- Well control procedures while tripping, stripping and snubbing.
- Significance of surface pressures, safety factors.
- Killing a well off bottom.
- Plugged nozzles and drill string wash out.
- Analysis of classic well control procedures.
- Annular pressure profiles, theory and reality.
- Discussion of other well control methods.
- Slim hole drilling.
- Stripping with influx migration.
- Oil-base mud.
- Subsea operations.
- Bull-heading, volumetric kill, dynamic kill and momentum kill.
- Firefighting, capping, freezing and hot tapping.
- Relief well design and operations.
- Underground blowouts.

arctic