



# Drilling Engineering

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1st floor, Incubator Building, Masdar  
City, Abu Dhabi, UAE



00971-2-6452630



00971-50-6652671



[info@btsconsultant.com](mailto:info@btsconsultant.com)



[www.btsconsultant.com](http://www.btsconsultant.com)

## Objectives:

To allow participants to:

1. study, criticize and improve a drilling and casing program
2. study the main aspects of the well, as far as well architecture, well safety and well life are concerned
3. Prepare the well to be produced.

## Course Outline:

- Techniques and job procedures.
- Cement and slurries.
- Liner hanger.
- Special cases.
- Cementing project.
- Control of the cement job.
- Functions.
- Physical and rheological characteristics of muds.
- Different types of muds.
- Case study. How to define a mud program.



- Mechanical treatments of muds and mud pits.
  - Extended reach drilling.
  - Mud losses and treatment.
  - Drilling and casing program.
  - Physical and mechanical properties of casings.
  - Shoe positioning.
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- Casing string calculation.
  - Onshore wellhead and equipment.
  - Subsea equipment.
  - Main completion type.
  - Pieces of equipment.
  - Tubing movement and forces.
  - Operational procedures.
  - Pressure and well kicks analysis.
  - Kick control procedure.
  - Special cases.
  - Equipment.
  - IWCF testing session (surface BOP stack).

