

# Side Tracking & Re-entry Drilling Operation



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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)



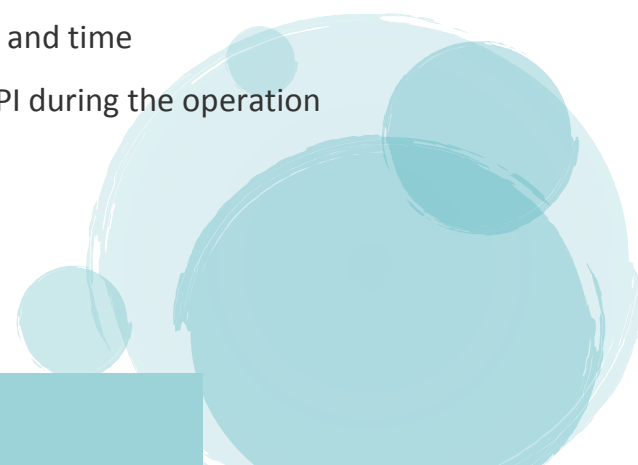
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## Introduction:

Reference to market demands and reduction of drilling hazards expenses, a well re-entry drilling technique was established. This technique requiring a combination of drilling & work over operation, starting from preparing present well for drilling operations as: killing present well, pulling existing completion string, running casing log for casing integrity,

plug and abundant present bay zone and opening window in present casing either by several techniques such as whip-stock, milling window in casing, milling liner hanger & liner overlap plus enough open hole then side track and wells with angle higher than 70 degree and was completed as open hole till drilling and running completion of the new targeted well.

## Objectives:

- **LEARN** the techniques to enhance of oil or gas recovery
  - **GAIN** knowledge of how to build economical targets in company projects
  - **INCREASE** the oil fields productivity
  - **GAIN** the knowledge of how to meet the market demand
  - **SOLVE** the workover hazards to avoid extra expenses and time
  - **LEARN** the techniques of killing NPT and improving KPI during the operation
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## Who should attend?

This course is specifically designed for, but not limited to employees in the oil and gas industry who holds the following roles:

- Drilling Managers
  - Drilling Supervisors
  - Rig Managers
  - Project Engineers
  - Tool Pushers
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- Drilling Superintendents
  - Senior Drillers
  - Drilling Engineers
  - Operation Engineers
  - HSE staff
  - Technical Assistants

## Course Outline

### Day 1

- Introduction of Side Tracking and Re - Entry Drilling Pre-liminary test
  - Reasons of side tracks or well retracing
  - Fishing and milling tools
  - Group Discussion & Case Studies
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## **Day 2**

- Workover hazards management
- Side tracks Techniques
- Balanced side track cement plug procedure and Calculation
- Side tracking well procedures (for open hole)
- High angle wells (above 70 degree) open hole side tracking
- Group Discussion & Brain Storming Sessions

## **Day 3**

- Preparing well for side tracking (for cased hole)
- Killing well methods.
- Cement squeeze types, sequences and calculations.
- Cement bond logs and choice of side tracking area.
- Opening casing window by milling (sectional mill).
- P&A well with balanced cement plug.
- Workshop Sessions

#### Day 4

- Side tracking tools and technique.
- Whip-stock and back-stock types.
- Setting procedures for back stocks.
- Side tracking using back stocks.
- Re-entry using milling liners technique

- Re-entry and multi-lateral wells.
- Side tracking plan
- Hole cleaning
- Group Discussion & Brain Storming Sessions

#### Day 5

- Side tracing fluid and Hydraulics.
  - Completion of side tracked wells.
  - Avoiding accidental side tracks.
  - Wrap Up & Final test
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