



MAESTRO
CONSULTANTS

HP-HT PLANNING & OPERATIONS

COURSE OUTLINE 2024

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TRAINING TITLE

HP-HT PLANNING & OPERATIONS

VENUE

Dubai, UAE

DURATION

5 Days

DATES

03 - 07 June 2024

PRICE

\$5,500 per attendee including training material/handouts, morning/afternoon coffee breaks, and Lunch buffet.

TRAINING INTRODUCTION

HP-HT fields are increasing in relevance every year in different areas of the world. Conventional fields have represented the vast majority of application during the last years. However, unconventional fields, which require in some cases very high pressures to achieve the required fracture gradients and extend the flow area, are becoming a very common area of application for HP-HT well completion designs.

TRAINING OBJECTIVES

Upon the successful completion of the course, participants will be able to: -

- Areas of interface (structural design, process safety)
- HP-HT development well engineering considerations
- Subsurface scenarios (reservoir depletion, seal failure, compaction)
- Casing design (conductor analysis, wellhead growth, annulus pressure buildup, big bore well design, material and connection selection)
- Fluids and cementing design
- Wellhead design (unitized wellhead, dual metal to metal seal)
- Rig and operational aspects
- Well delivery process
- Sourcing
- QAQC
- Introduction to HP-HT completions
- Difference between regular completions and HP-HT completions
- Reservoir issues
- Tubing stress analysis

- HP-HT completion equipment
- Completion fluids
- Well testing and production

AUDIENCE

- Drilling & Workover
- Completion
- Operations
- Petrophysics
- Production
- Well integrity

TRAINING OUTLINE

Day 1

- Introduction.
- Pre-test.
- Introduction to (O&G).
- Introduction to HP-HT.
- Difference between normal & HP-HT Wells.
- Pore Pressures.
- Related Geological Aspects.
- Risk & Safety Standards.
- Well Control Issues.

Day 2

- CSG Design.
- CSG Specifications.
- CRS Tools & Operations.
- CSG Operations Problems.
- CMT Chemicals.
- CMT Tools & Equip.
- CMT Design & Lab Test.

Day 3

- CMT Operations.
- CMT Jobs aspects.
- CMT Problems.
- CSG Accessories.
- Mud chemicals.
- Mud Program Design.

- Mud Preparation & Mixing.
- Mud Handling.
- OBM & WBM.
- Mud Lab & onsite tests.
- Completion Fluids.
- Mud Problems.

Day 4

- HP-HT Drilling Engineering.
- HP-HT Drilling Operations.
- HP-HT Drilling Services.
- HP-HT Work Over OPR's.
- HP-HT Drilling Operations Hydraulics.
- HP-HT onshore vs offshore.
- HP-HT Bits & DD Design & Operations.

Day 5

- Previous 4 Days Recap.
- Drilling String Design.
- Drilling Tools & Accessories.
- HP-HT Detailed Well Control.
- HP-HT Milling & Fishing OPR's.
- HP-HT Wells Integrity.
- HP-HT Wells Interventions.
- Course Recap.
- Post Test.

TRAINING CERTIFICATE

MAESTRO CONSULTANTS Certificate of Completion for delegates who attend and complete the training course

METHODOLOGY

Our courses are highly interactive, typically taking a case study approach that we have found to be an effective method of fostering discussions and transferring knowledge. Participants will learn by active participation during the program through the use of individual exercises, questionnaires, team exercises, training videos and discussions of "real life" issues in their organizations.

The material has been designed to enable delegates to apply all of the material with immediate effect back in the workplace.