

Training Title

WELL CONTROL TRAINING

Training Duration

5 days

Training Venue and Dates

WELL CONTROL TRAINING	5	20-24 February 2023	London, UK
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In any of the 5 star hotels. The exact venue will be informed once finalized.

Training Certificate

Define Management Consultancy & Training Certificate of course completion will be issued to all attendees.

TRAINING DESCRIPTION

This course will teach participants about the physical principles and concepts related to maintaining and regaining pressure control of wells while drilling. Starting from concepts of formation pressure, fracture pressure, and factors which affect inflow, participants will gain an understanding of the elements of primary and secondary well control methods. Well design concepts to improve pressure containment and reduce risk of secondary well control situations will be covered in detail.

TRAINING OBJECTIVES

participants will learn how to identify potential well control situations in advance of their occurrence. A brief overview of well control equipment, their operation, and testing will be covered to the extent necessary for the participants to identify requirements in the well planning phase. Classical well control methods will be covered and several well control problems will be worked using several standard well control worksheets. This course will complement and prepare the participants for other courses which are part of a certification process.

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WHO SHOULD ATTEND?

Drilling supervisors, drilling engineers, drilling superintendents, and drillers who are going on to full IWCF or IADC certification will greatly benefit from this course. This course would benefit all personnel who design, plan, and manage drilling operations.

TRAINING METHODOLOGY:

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions, and motivate everybody find the right answers. You will also be encouraged to raise your own questions and to share in the development

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of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course. Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work& Practical Exercises
- 20% Videos& General Discussions

DAILY OUTLINE

Day 1

Well Control, Well Pressure, and Industry Recommended Practices

- Formation and fracture pressures
- Leak off tests
- Kick tolerance and MAASP
- Gas expansion and casing seat selection
- Introduction to API RP 59 “Recommended Practices for Well Control Operations”

The first day will teach participants about well control history, formation and fracture pressures, and leak off tests. Kick tolerance and the determination of Maximum Allowable Annular Surface Pressure (MAASP) will also be covered. API RP59 will be reviewed to familiarize participants with this important industry recommended practice. The day will end with conversations over gas expansion and casing seat selection.

Day 2

Kick Causes and Well Control Concepts

- Kick causes and warnings
- Primary and secondary well control
- Lost circulation and kick detection
- Shut-in procedures and shallow gas
- Kill sheet basics and usage

Day two will focus on kick detection and well control basics. Kick causes, warning signs, primary and secondary well control, and lost circulation, will be covered. The day will end with discussions over shut in procedures, shallow gas, and kill sheet usage.

Day 3

Well Control Methods

- Drillers method
- Wait and weight method

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The third day participants will learn about the classical well control methods. Specific methods that will be covered include the drillers method and the wait and weight method. Special concerns and changes needed to circulate out kicks on floating drilling operations will be discussed. With an understanding of these methods the participants will calculate and set up various well control scenarios.

Day 4

Equipment

- BOP equipment
- Well control equipment

The selection, installation, operation, maintenance, and testing of BOP equipment will be discussed on this day. Important equipment selection criteria such as pressure limits, auxiliary units, and closing units will be discussed. Exercises related to equipment sizing will be performed.

Day 5

Subsea Equipment

- Subsea equipment
- Well control exercises

The last day of the course will cover subsea equipment and several well control exercises.

NOTE:

Pre & Post Tests will be conducted

Case Studies, Group Exercises, Group Discussions, Last Day Review & Assessments will be carried out.

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