

# WELL COMPOSITE CONSTRUCTION INTEGRITY & COMPLETION



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## **TRAINING TITLE**

WELL COMPOSITE CONSTRUCTION INTEGRITY & COMPLETION

## **VENUE**

Dubai, UAE

## **DURATION**

5 Days

## **DATES**

17 - 21 October 2021

## **PRICE**

US\$4,000 per attendee including training material/handouts, morning/afternoon coffee breaks and Lunch buffet.

## **TRAINING INTRODUCTION**

During the course, the participants will review and discuss the requirements of operators and regulatory authorities for integrity assurance in wells and production facilities. They will also gain knowledge in the completion techniques and design of wells in increasingly complex field developments to ensure well integrity and failure-free, long-life production.

## **TRAINING OBJECTIVES**

**Upon the successful completion of this course, each participant will be able to:-**

- Increase the life and value of old wells with new and proven technology.
- Ensure accurate data collection for reliable well completions and future well integrity.
- Restore high productivity level of wells with innovative intervention techniques.
- Define well barriers including the various types, well barrier design, selection and construction principles and high risk well.
- Specify components and equipment needed for well integrity.
- Identify best practices available to extend the life of equipment and production facilities including the operations integrity management and the well intervention procedures.
- Apply basic design and analysis concepts for well integrity.

## **TRAINING AUDIENCE**

Production engineers, petroleum engineers, well integrity engineers and production operators who are responsible for maintaining production periodically.

## **TRAINING OUTLINE**

### **1<sup>st</sup> Day**

#### **Casing Design**

- Reasons for running casing
- Forces affecting on casing (burst, collapse and tension)
- Safety factor during casing design
- How to design casing string

### **2<sup>nd</sup> Day**

#### **Completion Design**

- Completion at the reservoir
- Open hole (barefoot) completion
- Un-cemented liner completions
- Cased and cemented completions
- Gun types and perforation methods

### **3<sup>rd</sup> Day**

#### **Completion Design**

- Well inflow performance
- Vertical lift performance
- Functional requirements of a completion string
- Completion components descriptions
- Landing nipples
- Barriers types
- Safety valves
- Wellhead types

### **4<sup>th</sup> Day**

#### **Cement and Casing Evaluation**

- Factors affecting cement quality
- Cement evaluation
- Casing Evaluation
- Cased Hole logging(CBL-VDL, USIT, PMIT)

## **5<sup>th</sup> Day**

### **Management of Sustained Annulus Pressure**

- Well integrity
- Annulus pressure monitoring & data gathering
- Data quality control
- Relationship of pressure readings to the annulus pressure limits
- Criteria to prioritize wells with high annuli pressure for investigation
- Bleed-off and diagnostic testing procedures
- Bleed-down / build-up test operational steps
- Analysis of the bleed down/build up test
- Actions following bleed-down and build-up tests
- Bleed down/build up test operations
- Data verification
- Well remediation options
- Risk assessment

## **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.