Global Horizon
TRAINING CENTER

Training Course:
BHA Design and Best Drilling Practices

19 - 23 July 2026
Dubai (UAE)

Training Course:
BHA Design and Best Drilling Practices

Training Course code: EN234973 From: 19 - 23 July 2026 Venue: Dubai (UAE) - Training Course Fees: 5830 Euro

Introduction

The Bottom Hole Assembly BHA is a critical component in drilling operations, directly influencing well trajectory, drilling efficiency, and overall performance. Proper BHA design combined with best drilling practices ensures optimal rate of penetration, reduced non-productive time, and improved wellbore quality.

This program, designed by Global Horizon Training Center, equips participants with the technical knowledge and practical skills required to design effective BHAs and apply best practices in drilling operations to enhance performance and minimize risks.

Course Objectives

By the end of this program, participants will be able to:

- Understand the components and functions of BHA systems
- Design BHAs for different drilling conditions and well profiles
- Optimize drilling parameters for performance improvement
- Identify and mitigate drilling problems such as vibration and stick-slip
- Apply directional drilling techniques and tools
- Improve wellbore stability and hole quality
- Analyze drilling data for decision-making
- Implement best practices to enhance drilling efficiency and safety

Target Audience

This program is designed for:

- Drilling Engineers and Well Engineers
- Directional Drilling Specialists
- Field and Rig Engineers
- Operations and Drilling Supervisors
- Oil & Gas Technical Professionals
- Engineers involved in drilling planning and execution

Outline

Day 1: Fundamentals of BHA Design

- Overview of BHA components drill collars, stabilizers, MWD/LWD tools
- Functions and configurations of BHAs
- Factors influencing BHA design
- Introduction to drilling mechanics
- Types of BHAs vertical, directional, horizontal

Day 2: Drilling Mechanics and Performance Optimization

- Weight on bit WOB and rotary speed RPM
- Torque and drag analysis
- Bit selection and performance
- Rate of penetration ROP optimization
- Drilling fluid impact on performance

Day 3: Directional Drilling and BHA Applications

- Directional drilling principles
- Steering tools and techniques
- BHA design for directional wells
- Well trajectory control
- Surveying and measurement tools

Day 4: Drilling Problems and Mitigation Techniques

- Vibration, stick-slip, and whirl
- Wellbore instability and hole cleaning
- Lost circulation and differential sticking
- Troubleshooting drilling issues
- Preventive measures and best practices

Day 5: Advanced Practices and Case Studies

- Real-time drilling data analysis
- Optimization strategies for complex wells
- Integration with drilling software and tools
- Performance evaluation and reporting
- Case studies and real-world applications

Registration form on the Training Course: BHA Design and Best Drilling Practices

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

Delegate Information

Full Name (Mr / Ms / Dr / Eng): .....
Position: .....
Telephone / Mobile: .....
Personal E-Mail: .....
Official E-Mail: .....

Company Information

Company Name: .....
Address: .....
City / Country: .....

Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng): .....
Position: .....
Telephone / Mobile: .....
Personal E-Mail: .....
Official E-Mail: .....

Payment Method

- ☐ Please find enclosed a cheque made payable to Global Horizon
- ☐ Please invoice me
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Easy Ways To Register

Telephone: +201095004484 to provisionally reserve your place.	Fax your completed registration form to: +20233379764	E-mail to us : info@gh4t.com or training@gh4t.com	Complete & return the booking form with cheque to:Global Horizon 3 Oudai street, Aldouki, Giza, Giza Governorate, Egypt.