COURSE OVERVIEW DE1026 Formation Evaluation-Mud Logging

Course Title

Formation Evaluation-Mud Logging

Course Date/Venue

February 04-08, 2024/The Kooh Al Noor Meeting Room, The H Dubai Hotel, Sheikh Zayed Rd - Trade Centre, Dubai, UAE

Course Reference

DE1026

Course Duration/Credits

Five days/3.0 CEUs/30 PDHs

Course Description



This practical and highly-interactive course includes real-life case studies and exercises where participants will be engaged in a series of interactive small groups and class workshops.



Mud logging, also known as surface logging, is the creation of a detailed record of a borehole by examining the bits of rock or sediment brought to the surface by the circulating drilling medium (most commonly mud).



This course is designed to provide participants with a detailed and up-to-date overview of mudlogging. It covers the mud logging, geology and sedimentology including acquisition chain, sensors, signals and systems; the acquisition chain and gas detection, degassing process and technologies; the various types of gas analysis; and the gas detection interpretation generalities, gas in and out, mud logging and added value.





















Course Objectives

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

- Apply and gain an in-depth knowledge on mudlogging
- Discuss mud logging, geology and sedimentology including acquisition chain, sensors, signals and systems
- Carryout acquisition chain and gas detection as well as discuss degassing process and technologies
- Identify the various types of gas analysis, gas detection, interpretation generalities, gas in and out, mud logging and added value

Exclusive Smart Training Kit - H-STK®



Participants of this course will receive the exclusive "Haward Smart Training Kit" (H-STK®). The H-STK® consists of a comprehensive set of technical content which includes electronic version of the course materials, sample video clips of the instructor's actual lectures & practical sessions during the course conveniently saved in a Tablet PC.

Who Should Attend

This course provides an overview of all significant aspects and considerations of mudlogging for petrophysicists, geoscientists and engineers wishing to have hands on training in mud logging.

Training Methodology

All our Courses are including Hands-on Practical Sessions using equipment, Stateof-the-Art Simulators, Drawings, Case Studies, Videos and Exercises. The courses include the following training methodologies as a percentage of the total tuition hours:-

30% Lectures

20% Practical Workshops & Work Presentations

30% Hands-on Practical Exercises & Case Studies

20% Simulators (Hardware & Software) & Videos

In an unlikely event, the course instructor may modify the above training methodology before or during the course for technical reasons.

Course Fee

US\$ 8,000 per Delegate + VAT. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Accommodation

Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.

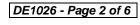




















Course Certificate(s)

Internationally recognized certificates will be issued to all participants of the course who completed a minimum of 80% of the total tuition hours.

Certificate Accreditations

Certificates are accredited by the following international accreditation organizations: -



The International Accreditors for Continuing Education and Training (IACET - USA)

Haward Technology is an Authorized Training Provider by the International Accreditors for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this authority, Haward Technology has demonstrated that it complies with the ANSI/IACET 2018-1 Standard which is widely recognized as the standard of good practice internationally. As a result of our Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for its programs that qualify under the ANSI/IACET 2018-1 Standard.

Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking Continuing Education Units (CEUs) in accordance with the rules & regulations of the International Accreditors for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

Haward Technology Middle East will award 3.0 CEUs (Continuing Education Units) or 30 PDHs (Professional Development Hours) for participants who completed the total tuition hours of this program. One CEU is equivalent to ten Professional Development Hours (PDHs) or ten contact hours of the participation in and completion of Haward Technology programs. A permanent record of a participant's involvement and awarding of CEU will be maintained by Haward Technology. Haward Technology will provide a copy of the participant's CEU and PDH Transcript of Records upon request.



British Accreditation Council (BAC)

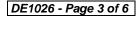
Haward Technology is accredited by the British Accreditation Council for Independent Further and Higher Education as an International Centre. BAC is the British accrediting body responsible for setting standards within independent further and higher education sector in the UK and overseas. As a BAC-accredited international centre, Haward Technology meets all of the international higher education criteria and standards set by BAC.

















Course Instructor(s)

This course will be conducted by the following instructor(s). However, we have the right to change the course instructor(s) prior to the course date and inform participants accordingly:



Dr. Hesham Abdou, PhD. MSc. BSc. is a Senior Drilling & Petroleum Engineer with over 35 years of integrated industrial and academic experience as a University Professor. His specialization widely covers in the areas of **Drilling** Completion Technology, Directional Drilling, Horizontal & Sidetracking, Drilling Operation Management, Drilling & Production Equipment, ERD Drilling & Stuck Pipe Prevention, Natural & Artificial Flow Well Completion, Well Testing Procedures & Evaluation, Well Performance, Coiled Tubing

Technology, Oil Recovery Methods Enhancement, Well Integrity Management, Well Casing & Cementing, Acid Gas Removal, Heavy Oil Production & Treatment Techniques, Crude Oil Testing & Water Analysis, Crude Oil & Water Sampling Procedures, Equipment Handling Procedures, Crude & Vacuum Process Technology, Gas Conditioning & Processing, Cooling Towers Operation & Troubleshooting, Sucker Rod Pumping, ESP & Gas Lift, PCP & Jet Pump, Pigging Operations, Electric Submersible Pumps (ESP), Progressive Cavity Pumps (PCP), Water Flooding, Water Lift Pumps Troubleshooting, Water System Design & Installation, Water Networks Design Procedures, Water Pumping Process, Pipelines, Pumps, Turbines, Heat Exchangers, Separators, Heaters, Compressors, Storage Tanks, Valves Selection, Compressors, Tank & Tank Farms Operations & Performance, Oil & Gas Transportation, Oil & Gas Production Strategies, Artificial Lift Methods, Piping & Pumping Operations, Oil & Water Source Wells Restoration, Pump Performance Monitoring, Rotor Bearing Modelling, Hydraulic Repairs & Cylinders, Root Cause Analysis, Vibration & Condition Monitoring, Piping Stress Analysis, Amine Gas Sweetening & Sulfur Recovery, Heat & Mass Transfer and Fluid Mechanics.

During his career life, Dr. Hesham held significant positions and dedication as the General Manager, Petroleum Engineering Assistant General Manager, Workover Assistant General Manager, Workover Department Manager, Artificial Section Head, Oil & Gas Production Engineer and Senior Instructor/Lecturer from various companies and universities such as the Cairo University, Helwan University, British University in Egypt, Banha University and Agiba Petroleum Company.

Dr. Hesham has a PhD and Master degrees in Mechanical Power Engineering and a Bachelor's degree in Petroleum Engineering. Further, he is a Certified Instructor/Trainer and a Peer Reviewer. Dr. Hesham is a member of Egyptian Engineering Syndicate and the Society of Petroleum Engineering, Moreover, he has published technical papers and journals and has delivered numerous trainings, workshops, courses, seminars and conferences internationally.

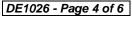




















Course Program

The following program is planned for this course. However, the course instructor(s) may modify this program before or during the course for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

Sunday, 04th of February 2024 Day 1.

Suriday, 04 Or February 2024
Registration & Coffee
Welcome & Introduction
PRE-TEST
Introduction to Mud Logging & Geology
Break
Mud Logging Definition
Overview of Geology & Sedimentology
Break
Practical Session & Acquisition Chain
Recap
Lunch & End of Day One

Monday, 05th of February 2024 Dav 2:

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	0730 - 0930	Practical Session: Recognize these Rocks
	0930 - 0945	Break
	0945 - 1100	Acquisition Chain
	1100 - 1230	Sensors, Signals, & Systems
	1230 - 1245	Break
	1245 – 1420	Acquisition Chain & Gas Detection
	1420 – 1430	Recap
	1430	Lunch & End of Day Two

Tuesday, 06th of February 2024 Day 3:

0730 - 0930	End of an Acquisition Chain
0930 - 0945	Break
0945 - 1100	Understanding Gas Detection
1100 - 1230	Degassing Process & Technologies
1230 - 1245	Break
1245 - 1420	Types of Gas Analysis
1420 - 1430	Recap
1430	End of Day Three

Wednesday, 07th of February 2024 Day 4:

0730 - 0930	Interpretation Generalities
0930 - 0945	Break
0945 - 1100	Case Studies
1100 - 1230	Gas In & Out
1230 - 1245	Break
1245 - 1420	Gas In & Out (cont'd)
1420 - 1430	Recap
1430	Lunch & End of Day Four















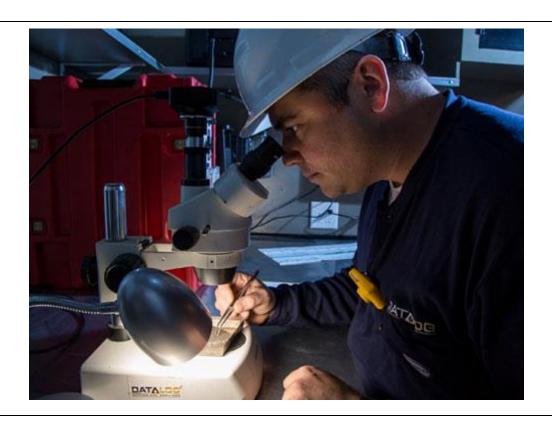


Day 5:	Thursday, 08 th of February 2024
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0730 - 0930	Gas Detection & Close Out
0930 - 0945	Break
0945 - 1100	Understanding Gas Detection
1100 - 1230	Mud Logging & Added Value
1230 - 1245	Break
1245 - 1345	Mud Logging & Added Value (cont'd)
1345 - 1400	Course Conclusion
1400 – 1415	POST-TEST
1415 – 1430	Presentation of Course Certificates
1430	Lunch & End of Course

Practical Sessions

This practical and highly-interactive course includes real-life case studies and exercises:-



Course Coordinator

Kamel Ghanem, Tel: +971 2 30 91 714, Email: kamel@haward.org











