

DRILLING 101

April 10, 2017
Hilton Baltimore
Baltimore, MD



EUCI is authorized
by IACET to offer
0.8 CEUs for the
course

OVERVIEW

Drilling is a complex process involving many different technical professionals and functions. Understanding how a well is drilled is important for many non-technical professionals working within the oil and gas industry. This course is intended for individuals with little to no prior drilling experience who will benefit from learning more about the drilling process.

The instructor, who has decades of “boots on the ground” experience, will begin with a brief overview to lay the groundwork for drilling. The detailed process of drilling will then be covered. Attendees will learn about the process of selecting the drilling fluid and bits, designing cement and casing, calculating formation and fracture pressures, and the basics of directional drilling. Attendees will leave the course with a complete understanding of the processes involved in the drilling of oil and gas wells.

LEARNING OUTCOMES

Attendees to this course will:

- Lay the groundwork for drilling projects
- Describe the functions and properties of drilling fluid
- Calculate cement volumes and identify additives
- Determine bit and casing sizes/types
- Recognize fluid hydraulic concerns
- Describe directional drilling methods and well trajectories
- Discuss the BP Deepwater Horizon Investigation

INSTRUCTOR



M.K. (Val) Lerma

Engineering Manager, InterAct

Ms. Lerma has worked in the oil industry for over 30 years. Her experience includes drilling, reservoir, and production engineering, as well as management. She has worked for both major and independent operators, both on and offshore. She has a BS and MS in Petroleum Engineering from the University of Southern California, and an MBA from California Lutheran University. She served as the Engineering Manager, Business Development Manager, and President of Orchard Petroleum Inc., and Orchard E&P, LLC. Ms. Lerma taught the drilling engineering undergraduate and graduate course at USC for 7 years, and currently teaches various oil and gas classes for both the PTTC and EUCI. She’s on the Curriculum Advisory Board for the University of North Dakota’s petroleum engineering department, and is a member of the local API Board. Val has authored and co-authored several SPE papers and is a licensed professional petroleum engineer in the State of California. Val is currently the Engineering Manager for InterAct, an Acteon Company.



“Val is a fantastic teacher. Her real life stories and experience really added color to the subject matter. The end of class came too fast.”

Assistant Controller, Drilling Services

COURSE TIMING

MONDAY, APRIL 10, 2017

- 8:00 – 8:30 am** **Registration and Continental Breakfast**
- 8:30 am – 5:00 pm** **Course Timing**
- 12:00 – 1:00 pm** **Group Luncheon**

PROGRAM AGENDA

Laying the Groundwork

- People
- Permits
- Rig components

Drilling Fluids

- Functions
- Properties
- Treatment and diagnostic tools
- Solids control equipment

Cement

- Language of cement
- Tools
- Additives
- Types of cementing procedures
- Calculations

Bits

- IADC Code
- Rate of penetration
- Grading
- Economics

Casing Design

- Types and connectors
- Design criteria
- Sizes and depths

Directional Drilling

- Overall planning
- Deflection tools
- Directional measurements

BP Deepwater Horizon Investigation

- Cement
- Well control
- Equipment failure

Summary & Conclusion



“Great course. Exactly what I needed.”

Facility/Production Engineer,
Freeport McMoran Oil & Gas



“Great course for all levels of knowledge.”

OU Student



“You will receive a very good intro level education about drilling operations.”

Outside Sales Rep., United Casing Inc.

REQUIREMENTS FOR SUCCESSFUL COMPLETION OF PROGRAM

Participants must sign in/out each day and be in attendance for the entirety of the course to be eligible for continuing education credit.

INSTRUCTIONAL METHODS

Case studies and PowerPoint presentations will be used in this program.

EVENT LOCATION

A room block has been reserved at the Hilton Baltimore, 401 W Pratt St, Baltimore, MD 2120, for the nights of April 9-10, 2017. Room rates are \$189 plus applicable tax. Call **1-443-573-8700** for reservations and mention the EUCI event to get the group rate. The cutoff date to receive the group rate is March 9, 2017 but as there are a limited number of rooms available at this rate, the room block may close sooner. **Please make your reservations early.**

IACET CREDITS



EUCI has been accredited as an Authorized Provider by the International Association for Continuing Education and Training (IACET). In obtaining this accreditation, EUCI has demonstrated that it complies with the ANSI/IACET Standard which is recognized internationally as a standard of good practice. As a result of their Authorized Provider status, EUCI is authorized to offer IACET CEUs for its programs that qualify under the ANSI/IACET Standard.

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"The material [presented in this Drilling 101 course] was perfectly simple, but intelligently presented."

Senior Project Professional, SCS Engineers



"Perfect course to send support personnel and those new to the industry."

Engineering Technician, COGCC

REGISTRATION
to register [CLICK HERE](#) or

Call: 201 871 0474
fax: 253 663 7224
email: [register@pmaconference.com/](mailto:register@pmaconference.com)
web: <http://pmaconference.com/>
Mail: POB 2303 Falls Church Va 22042

Please make checks payable to: "PMA"

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PLEASE REGISTER

- BOTH DRILLING 101 AND WELL INTEGRITY FOR GAS STORAGE FIELDS COURSES:**
 APRIL 10-11, 2017: US \$1895,
 Early bird on or before March 24, 2017: US \$1695
- DRILLING 101 COURSE ONLY:**
 APRIL 10, 2017: US \$995,
 Early bird on or before March 24, 2017: US \$895

How did you hear about this event? (direct e-mail, colleague, speaker(s), etc.)

Print Name Job Title

Company

What name do you prefer on your name badge?

Address

City State/Province Zip/Postal Code Country

Phone Email

List any dietary or accessibility needs here

CREDIT CARD INFORMATION

Name on Card Account Number

Billing Address Billing City Billing State

Billing Zip Code/Postal Code Exp. Date Security Code (last 3 digits on the back of Visa and MC or 4 digits on front of AmEx)

OR Enclosed is a check for \$ _____ to cover _____ registrations.

Substitutions & Cancellations

Your registration may be transferred to a member of your organization up to 24 hours in advance of the event. Cancellations must be received on or before March 10, 2017 in order to be refunded and will be subject to a US \$195.00 processing fee per registrant. No refunds will be made after this date. Cancellations received after this date will create a credit of the tuition (less processing fee) good toward any other EUCI event. This credit will be good for six months from the cancellation date. In the event of non-attendance, all registration fees will be forfeited. In case of course cancellation, EUCI's liability is limited to refund of the event registration fee only. For more information regarding administrative policies, such as complaints and refunds, please contact our offices at (201) 871-0474.