FUNDAMENTALS OF UPSTREAM OPERATIONS

February 24-25, 2020
Royal Sonesta Houston
Houston, TX
OVERVIEW

Oil and gas is a global industry that faces constant pressure to change and innovate. This dynamic nature is especially true for upstream operations. This area of the industry, also called exploration and production, involves all well-related activities. Technological advances like horizontal drilling and multi-stage hydraulic fracturing have revolutionized operations and created a production boom in North America. Any successful professional in the oil and gas industry must possess a real world understanding of the planning and field operations required to produce hydrocarbons. This is especially true for new employees, who find it difficult to advance without this basic knowledge. This course provides a comprehensive overview of upstream operations. Instructed by Robert Schaaf, an expert with over thirty years of field experience, the participants will gain an appreciation of industry operations and grasp the key issues affecting its development and future.

This training course will provide a thorough overview of upstream operations in the oil and gas industry. The curriculum will cover topics such as: history of exploration and production, geology, drilling operations, and surface equipment. An introduction to technical content will also cover producing a well, stimulation, enhanced recovery, and the basics of reservoir engineering. Participants will enjoy hands-on experience through a variety of exercises, with the opportunity to exchange views with a diverse group of industry peers. This course will provide a comprehensive foundation of knowledge for the most critical aspect of the oil and gas industry: upstream operations.

LEARNING OUTCOMES

- Review the scope of upstream operations
- Explore fossil fuel formation and the discovery process
- Examine reservoir engineering and oil/gas reserve classifications
- Review the drilling process from spud to completion
- Identify various artificial lift techniques for producing oil wells
- Study the various means of well stimulation and field enhanced recovery
- Develop a basic knowledge of surface facilities design

WHO SHOULD ATTEND

- New employees in the petroleum industry
- Experienced personnel new to upstream activities
- Engineering professors and research professionals who have not spent time in an oilfield
- Attorneys and land agents involved in the oil & gas industry
- Investment managers involved with oil & gas
- Bankers involved in the oil & gas industry
- Accountants involved with oil & gas companies
- Regulators and regulatory affairs personnel
- Anyone with the need to understand upstream operations
AGENDA

MONDAY, FEBRUARY 24, 2020

8:00 – 8:30 am  
Registration and Continental Breakfast

8:30 am – 4:00 pm  
Course Timing

12:00 – 1:00 pm  
Group Luncheon

Overview and History
- Upstream operations overview
- History of upstream operations

Geology of Oil and Gas Fields
- How is oil formed
- Subsurface structures
- Oil/Gas production rock types
- The oil exploration process

Oil and Gas Drilling Operations
- Review the steps of the drilling process
- Elements of a drilling rig
- Directional drilling
- Overview of drilling mud, casing, coring, logging, cementing, and perforating

Producing an Oil Well
- Review of various types of artificial lift

Stimulation, Waterflooding, and Enhanced Recovery to Improve Hydrocarbon Recovery
- Acidizing and hydraulic fracturing (fracking)
- Hydraulic fracturing process
- Waterflooding
- Review of steaming operations to improve oil recovery
- Other types of enhanced recovery

Unconventional Oil and Gas Reservoirs
- Oil and gas production from shale formations
- Other types of unconventional oil/gas reservoirs that are being produced
AGENDA

TUESDAY, FEBRUARY 25, 2020

8:00 – 8:30 am  Continental Breakfast

8:30 am – 12:00 pm  Course Timing

Oil and Gas Reservoir Engineering
• How to estimate how much oil is in the ground and how much can be produced
• Types of oil and gas reserves
• Oil reservoir drive mechanisms

Oil Field Surface Operations
• Review of equipment used in the oil field
• The oil treatment system used to process marketable crude
• Natural gas processing

Well Abandonments
• An overview of the process to properly abandon an oil or gas well

Economics of oil and gas operations
• Review of economic parameters
• Introduction to probabilistic economics

INSTRUCTOR

Robert Schaaf

Robert is an industry expert with more than 30 years of experience in the oil production and exploration industry. He has held technical and leadership positions worldwide with Gulf Oil, Chevron International, Aera Energy, and Occidental Petroleum. Included in his background is the development of oil fields in the USA, West Africa, and the Middle East. In Angola, he took an offshore exploration discovery to first production in under 18 months. He has provided technical assistance to the Kuwait Oil Company on the world's second largest oil field, Burgan.

Robert is the Chair of the Los Angeles Basin Society of Petroleum Engineers and is a former Chair of the Huntington Beach Environmental Board.
REQUIREMENTS FOR SUCCESSFUL COMPLETION

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

PowerPoint presentations and open discussion will be used.

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.

EUCI is authorized by IACET to offer 1.0 CEUs for the course.

EVENT LOCATION

A room block has been reserved at the Royal Sonesta Houston, 2222 W Loop S, Houston, TX 77027, for the nights of February 23-25, 2020. Room rates are $179 plus applicable tax. Call 1-713-627-7600 for reservations and mention the EUCI event to get the group rate. The cutoff date to receive the group rate is January 23, 2020 but as there are a limited number of rooms available at this rate, the room block may close sooner. Please make your reservations early.

REGISTER 3, SEND THE 4TH FREE

Any organization wishing to send multiple attendees to this course may send 1 FREE for every 3 delegates registered. Please note that all registrations must be made at the same time to qualify.
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**PLEASE SELECT**

- **FUNDAMENTALS OF UPSTREAM OPERATIONS COURSE**
  - FEBRUARY 24-25, 2020: US $1395
  - EARLY BIRD on or before FEBRUARY 7, 2020: US $1195

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**ENERGIZE WEEKLY**

Energize Weekly is EUCI's free weekly newsletter, delivered to your inbox every Wednesday. We provide you with the latest industry news as well as in-depth analysis from our own team of experts. Subscribers also receive free downloadable presentations from our past events.

- **Sign me up for Energize Weekly**

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**CREDIT CARD INFORMATION**

- Name on Card
- Billing Address
- Account Number
- Billing City
- Exp. Date
- Billing State
- Security Code (last 3 digits on the back of Visa and MC or 4 digits on front of AmEx)
- Billing Zip Code/Postal Code
- OR Enclosed is a check for $ to cover registrations.

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**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 January 24, 2020 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. EUCI reserves the right to alter this program without prior notice.