

COURSE OVERVIEW DE0500
Screening of Oil Reservoirs for Enhanced Oil Recovery

Course Title

Screening of Oil Reservoirs for Enhanced Oil Recovery

Course Reference

DE0500

Course Duration

Five days/3.0 CEUs/30 PDHs



Course Date/Venue

Session(s)	Date	Venue
1	May 12-16, 2024	Oryx Meeting Room, Doubletree By Hilton Doha-Al Sadd, Doha, Qatar
2	September 08-12, 2024	Kizkulesi, Crown Plaza Istanbul Asia Hotels & Convention Center, Istanbul, Turkey
3	January 12-16, 2025	The Kooh Al Noor Meeting Room, The H Dubai Hotel, Sheikh Zayed Rd - Trade Centre, Dubai, UAE

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.



This course is designed to provide participants with a detailed and an up-to-date overview of oil reservoirs for enhanced oil recovery screening. It covers the reasons and various processes of enhanced oil recovery; the displacement fundamentals; the phase behavior and the miscible recovery process; the polymer flooding as well as chemical/micellar/surfactant flooding; the thermal processes; and the interpretation of carbon dioxide flooding.



Upon the completion of this course, participants will have an understanding of the various processes used for improved oil recovery. You will learn why oil is left in the reservoir after various recovery processes no longer produce economic quantities and what additional processes are available to recover this oil. You will learn how to do a preliminary evaluation to determine which processes might be suitable for a specific reservoir.

Course Objectives

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

- Apply and gain an in-depth knowledge on screening of oil reservoirs for enhanced oil recovery processes
- Discuss enhanced oil recovery including definitions, reasons and various processes
- Define and explain the displacement fundamentals
- Interpret the phase behavior and illustrate the miscible recovery process
- Explain and discuss polymer flooding as well as chemical/micellar/surfactant flooding
- Illustrate and analyze thermal processes
- Explain and interpret carbon dioxide flooding

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 conveniently saved in a **Tablet PC**.*

Who Should Attend

This course provides an overview of all significant aspects and considerations of screening of oil reservoirs for enhanced oil recovery for engineers who will be evaluating reservoirs that are nearing primary depletion and for managers and supervisors who will make the final decisions on the recommendations of enhanced oil recovery projects to upper-level management.

Training Methodology

All our Courses are including **Hands-on Practical Sessions** using equipment, State-of-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


Doha	US\$ 8,500 per Delegate. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.
Istanbul	US\$ 8,500 per Delegate + VAT . This rate includes Participants Pack (Folder, Manual, Hand-outs, etc.), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.
Dubai	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.

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: -


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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.

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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:



Mr. Konstantin Zorbalas, MSc, BSc, is a Senior Petroleum Engineer & Well Completions Specialist with over 25 years of offshore and onshore experience in the Oil & Gas, Refinery & Petrochemical industries. His wide expertise includes Workovers & Completions, Petroleum Risk & Decision Analysis, Acidizing Application in Sandstone & Carbonate, Well Testing Analysis, Stimulation Operations, Reserves Evaluation, Reservoir Fluid Properties, Reservoir Engineering & Simulation Studies, Reservoir Monitoring, Artificial Lift Design, Gas Operations, Workover/Remedial Operations & Heavy Oil Technology, Applied Water Technology, Oil & Gas Production, X-mas Tree & Wellhead Operations & Testing, Artificial Lift Systems (Gas Lift, ESP, and Rod Pumping), Well Cementing, Production Optimization, Well Completion Design, Sand Control, PLT Correlation, Slickline Operations, Acid Stimulation, Well testing, Production Logging, Project Evaluation & Economic Analysis. Further, he is actively involved in **Project Management** with special emphasis in production technology and field optimization, performing conceptual studies, economic analysis with risk assessment and field development planning. He is currently the **Senior Petroleum Engineer & Consultant of National Oil Company** wherein he is involved in the mega-mature fields in the Arabian Gulf, predominantly carbonate reservoirs; designing the acid stimulation treatments with post-drilling rigless operations; utilizing CT with tractors and DTS systems; and he is responsible for gas production and preparing for reservoir engineering and simulation studies, well testing activities, field and reservoir monitoring, production logging and optimization and well completion design.

During his career life, Mr. Zorbalas worked as a **Senior Production Engineer, Well Completion Specialist, Production Manager, Project Manager, Technical Manager, Technical Supervisor & Contracts Manager, Production Engineer, Production Supervisor, Production Technologist, Technical Specialist, Business Development Analyst, Field Production Engineer and Field Engineer.** He worked for many **world-class oil/gas companies** such as **ZADCO, ADMA-OPCO, Oilfield International Ltd, Burlington Resources** (later acquired by **Conoco Phillips**), **MOBIL E&P, Saudi Aramco, Pluspetrol E&P SA, Wintershall, Taylor Energy, Schlumberger, Rowan Drilling and Yukos EP** where he was in-charge of the **design and technical analysis** of a gas plant with capacity **1.8 billion m³/yr gas**. His achievements include **boosting oil production 17.2% per year** since 1999 using **ESP and Gas Lift systems**.

Mr. Zorbalas has **Master and Bachelor degrees in Petroleum Engineering** from the **Mississippi State University, USA**. Further, he is an **SPE Certified Petroleum Engineer, Certified Instructor/Trainer, a Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership & Management (ILM)**, an active member of the **Society of Petroleum Engineers (SPE)** and has numerous scientific and technical publications and delivered innumerable training courses, seminars and workshops worldwide.

Accommodation

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

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:

Day 1

0730 – 0800	Registration & Coffee
0800 – 0815	Welcome & Introduction
0815 – 0830	PRE-TEST
0830 – 0930	Introduction to EOR Definitions • Reasons for EOR • Various Processes
0930 – 0945	Break
0945 – 1100	Displacement Fundamentals
1100 – 1230	Displacement Fundamentals (cont'd)
1230 – 1245	Break
1245 – 1420	Displacement Fundamentals (cont'd)
1420 – 1430	Recap
1430	Lunch & End of Day One

Day 2

0730 – 0900	Phase Behavior
0900 – 0915	Break
0915 – 1100	Phase Behavior (cont'd)
1100 – 1230	Phase Behavior (cont'd)
1230 – 1245	Break
1245 – 1420	Miscible Recovery Processes
1420 – 1430	Recap
1430	Lunch & End of Day Two

Day 3

0730 – 0900	Miscible Recovery Processes (cont'd)
0900 – 0915	Break
0915 – 1100	Miscible Recovery Processes (cont'd)
1100 – 1230	Polymer Flooding
1230 – 1245	Break
1245 – 1420	Polymer Flooding (cont'd)
1420 – 1430	Recap
1430	Lunch & End of Day Three

Day 4

0730 – 0900	Polymer Flooding (cont'd)
0900 – 0915	Break
0915 – 1100	Chemical/Micellar/Surfactant Flooding
1100 – 1230	Chemical/Micellar/Surfactant Flooding (cont'd)
1230 – 1245	Break
1245 – 1420	Chemical/Micellar/Surfactant Flooding (cont'd)
1420 – 1430	Recap
1430	Lunch & End of Day Four

Day 5

0730 – 0930	<i>Thermal Processes</i>
0930 – 0945	<i>Break</i>
0945 – 1100	<i>Thermal Processes (cont'd)</i>
1100 – 1200	<i>Carbon Dioxide Flooding</i>
1200 – 1215	<i>Break</i>
1215 – 1345	<i>Carbon Dioxide Flooding (cont'd)</i>
1345 – 1400	<i>Course Conclusion</i>
1400 – 1415	POST-TEST
1415 – 1430	<i>Presentation of Course Certificates</i>
1430	<i>Lunch & End of Course</i>

Practical Sessions

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



Course Coordinator

Jaryl Castillo, Tel: +974 4423 1327, Email: jaryl@haward.org