



COURSE OVERVIEW DE0793 Gas Reservoir Management

Course Title

Gas Reservoir Management

Course Date/Venue

August 31-September 04, 2026/Al Ain Boardroom,
Le Royal Méridien Abu Dhabi, Abu Dhabi, UAE

Course Reference

DE0793

Course Duration/Credits

Five days/2.75 CEUs/27.5 PDHs



Course Description



This practical and highly-interactive course includes various practical sessions and exercises. Theory learnt will be applied using our state-of-the-art simulators.

This course is designed to provide participants with a detailed and up-to-date overview of gas field reservoir management. It covers the gas reservoir fluid properties, gas condensate sampling and laboratory reports; the gas reservoir fluid flow and well testing; the deliverability of test and non-darcy flow; testing for hydraulically fractured wells; the horizontal wells and gas condensate reservoirs; determining original gas-in-place; the material balance techniques for various drive mechanisms and reservoir types; the alternate plotting techniques; the production decline type curves; and the gas flow in wellbores and pipelines.



During this interactive course, participants will learn the gas production system; the pressure drop in wellbores and flowlines; the restrictions to gas production; predicting future performance and ultimate recovery; the decline curves, coupled material balance and deliverability techniques; the reservoir simulation, gas well spacing and infill drilling; the reservoir management of water-drive gas reservoirs; predicting gas condensate reservoir performance; and the coalbed methane reservoirs.



Course Objectives/Outcomes & Benefits for the Participants

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

- Apply and gain in-depth knowledge on gas field reservoir management
- Discuss gas reservoir fluid properties, gas condensate sampling and laboratory reports
- Describe gas reservoir fluid flow and well testing including deliverability test and non-darcy flow
- Test hydraulically fractured wells, horizontal wells and gas condensate reservoirs
- Determine original gas-in-place including material balance techniques for various drive mechanisms and reservoir types, alternate plotting techniques and production decline type curves
- Discuss gas flow in wellbores and pipelines, gas production system, pressure drop in wellbores and flowlines
- Recognize restrictions to gas production and predict future performance and ultimate recovery
- Discuss decline curves, coupled material balance and deliverability techniques, reservoir simulation, gas well spacing and infill drilling
- Carryout reservoir management of water-drive gas reservoirs, predict gas condensate reservoir performance and discuss coalbed methane reservoirs

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 gas field reservoir management for reservoir engineers actively involved with the operation and management of gas reservoirs and geoscientists working with gas reservoirs in field development.

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.

Learning Design & Customization

This course can be customized to the exact requirements of clients. Haward Technology is so proud of our huge capabilities in tailoring our courses to the training needs of our valued clients.

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

Haward's certificates are accredited by the following international accreditation organizations:

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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**. Haward's certificates are internationally recognized and accredited by the British Accreditation Council (BAC). 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.

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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 **2.75 CEUs** (Continuing Education Units) or **27.5 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.

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 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. Orlando Maceo, MSc, BSc, is a **Senior Reservoir Engineer** with over **30 years** of extensive experience within the **Oil & Gas, Petrochemical and Refinery** industries. His wide experience covers in the areas of **Reservoir Engineering, Reservoir Modeling & Simulation, Fractured Reservoir Characterization, Carbonates Reservoir, Reservoir Geophysics, Reservoir Characterization & Management, Reservoir Surveillance & Management, Integrated Reservoir Analysis, Reservoir Hydrocarbon Fluid Classification, Reservoir Volumetrics, Horizontal & Multilateral Wells & Reservoir Concerns, Reservoir Souring & Water Breakthrough, Pressure Transient Testing & Reservoir Performance Evaluation, Reservoir Performance Using Classical Methods, Advanced Pressure-Volume-Temperature (PVT) and Equation of State (EOS) Characterization, PVT & SCAL Analysis, PVT Parameter Evaluation, Pressure & Production Analysis, Well Performance & Production Optimization, Well Testing & Performance Analysis, Well Completion & Stimulation, Water Flooding, Enhanced Oil Recovery (EOR), Rock Typing, Special Core Analysis (SCAL), Oil & Gas Field Development, Numeral Simulation & Oilfield Development, Static & Dynamic Modeling and Geological Modeling. He is also well-versed in various software such as Petrel, IMEX (CMG), WinProp (CMG), STARS (CMG), GEM, CMOST, CoFlow, GridBuilder (CMG), Results (CMG), ECLIPSE, Saphir (Kappa), OFM (Schlumberger) and MBAL.**

During his career life, Mr. Maceo held significant positions and dedication as **Project Manager, Senior Reservoir Engineer & Advisor, Reservoir Simulation Engineer, Petroleum Engineer Advisor, Production Engineer, R&D Technologist, Reservoir Engineering Consultant, International Consultant and Senior Instructor/Trainer** from various international companies and universities such as the Resource Technology Network, OPICA Consultores, Beicip-Franlab, Lukoil-Overseas Ltd and Oil Research Center (Ceinpet).

Mr. Maceo has a **Master's** degree in **Exploration-Production** and a **Bachelor's** degree in **Reservoir Engineering** from **Gubkin Russian State University of Oil & Gas**, Russia. Further, he is a **Senior Instructor/Trainer** and has delivered numerous trainings, courses, workshops, 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:

Day 1: Monday, 31st of August 2026

0800 – 0830	Registration & Coffee
0830 – 0845	Welcome & Introduction
0845 – 0900	PRE-TEST
0900 – 0930	Gas Reservoir Fluid Properties
1000 – 1015	Break
1015 – 1100	Gas Condensate Sampling
1000 – 1145	Understanding Laboratory Reports
1145 – 1215	Gas Reservoir Fluid Flow & Well Testing
1215 – 1230	Break
1230 – 1350	Deliverability Testing & Non-Darcy Flow
1350 – 1400	Recap
1400	Lunch & End of Day One

Day 2: Tuesday, 01st of September 2026

0800 – 0930	Testing for Hydraulically Fractured Wells
0930 – 0945	Break
1015 – 1115	Horizontal Wells
1115 – 1215	Gas Condensate Reservoirs
1215 – 1230	Break
1230 – 1315	Determination of Original Gas-In-Place
1315 – 1350	Material Balance Techniques for Various Drive Mechanisms & Reservoir Types
1350 – 1400	Recap
1400	Lunch & End of Day Two

Day 3: Wednesday, 02nd of September 2026

0800 – 0930	Alternate Plotting Techniques
0930 – 0945	Break
1015 – 1115	Production Decline Type Curves
1115 – 1215	Gas Flow in Wellbores & Pipelines
1215 – 1230	Break
1230 – 1315	The Gas Production System
1315 – 1350	Pressure Drop in Wellbores & Flowlines
1350 – 1400	Recap
1400	Lunch & End of Day Three

Day 4: Thursday, 03rd of September 2026

0800 – 0930	Restrictions to Gas Production
0930 – 0945	Break
1015 – 1115	Prediction of Future Performance & Ultimate Recovery
1115 – 1215	Decline Curves
1215 – 1230	Break
1230 – 1315	Coupled Material Balance & Deliverability Techniques



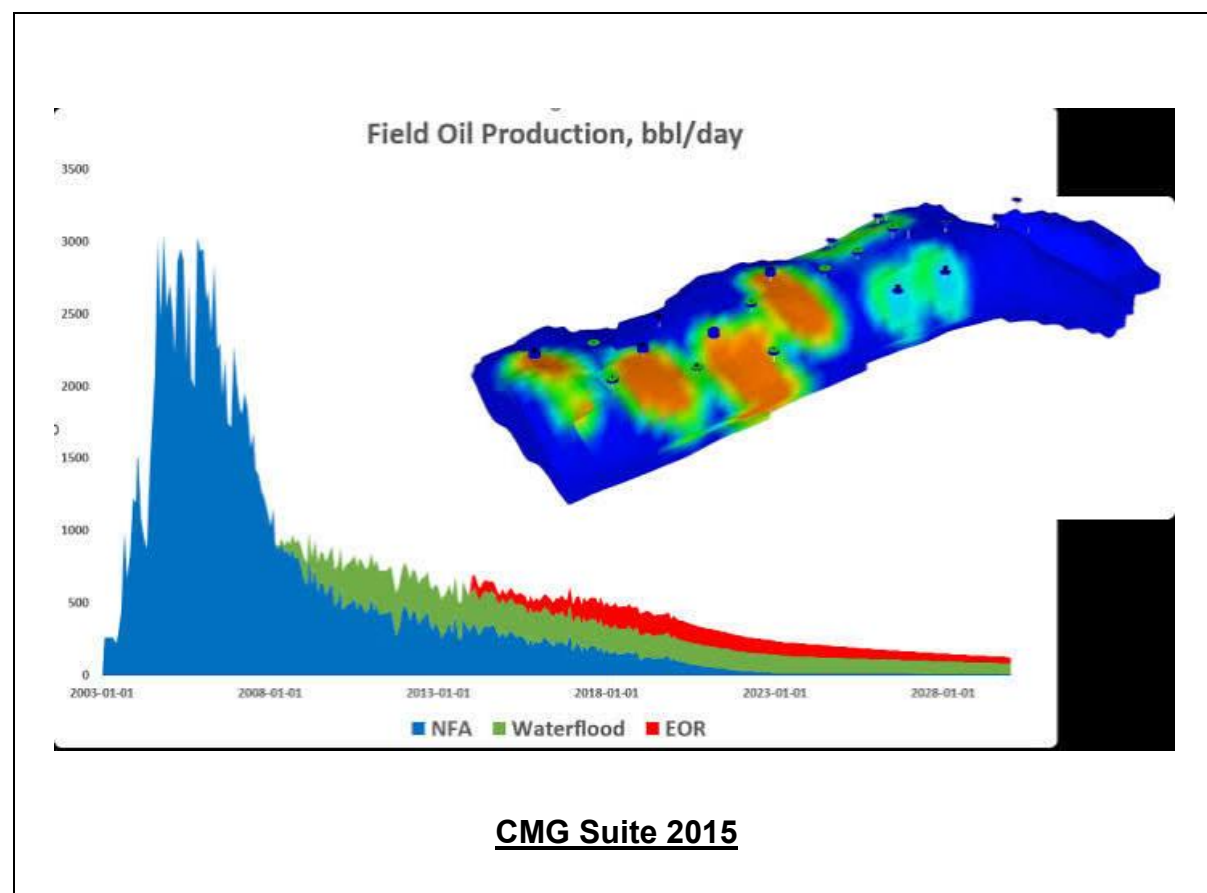
1315 – 1350	<i>Reservoir Simulation</i>
1350 – 1400	<i>Recap</i>
1400	<i>Lunch & End of Day Four</i>

Day 5: Friday, 04th of September 2026

0800 – 0930	<i>Gas Well Spacing & Infill Drilling</i>
0930 – 0945	<i>Break</i>
1015 – 1100	<i>Special Topics</i>
1000 – 1145	<i>Reservoir Management of Water-Drive Gas Reservoirs</i>
1145 – 1215	<i>Predicting Gas Condensate Reservoir Performance</i>
1215 – 1230	<i>Break</i>
1230 – 1315	<i>Coalbed Methane Reservoirs</i>
1315 – 1330	<i>Course Conclusion</i>
1330 – 1345	<i>POST-TEST</i>
1345 – 1400	<i>Presentation of Course Certificates</i>
1400	<i>Lunch & End of Course</i>

Simulator (Hands-on Practical Sessions)

Practical sessions will be organized during the course for delegates to practice the theory learnt. Delegates will be provided with an opportunity to carryout various exercises using the “CMG Suite 2015”.



Course Coordinator

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