

COURSE OVERVIEW DE0266
Advancing Field Development Planning Towards Integrative Life Cycle

Course Title

Advancing Field Development Planning Towards Integrative Life Cycle

Course Date/Venue

Session 1: May 12-16, 2025/Fujairah Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE

Session 2: November 02-06, 2025/Boardroom 1, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE

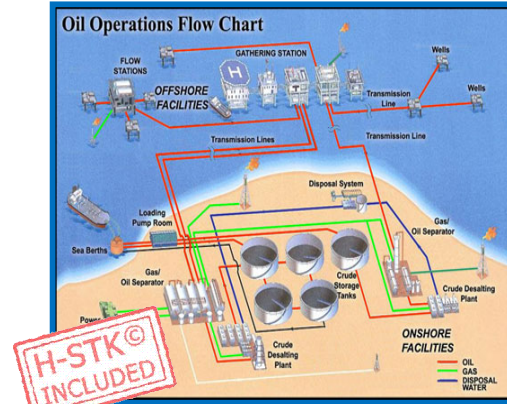
Course Reference

DE0266

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.

Field development planning comprises a great amount of investments and involves a high number of parameters related to the geological and structural characteristics of the reservoir, to the operational scheduling and the economic scenario. The importance of this problem demands the elaboration of methodologies that can help in the management decision making process, leading to better recovery strategies that increase both reserves and profitability of reservoirs.

The Field Development Plan (FDP) is the technical document containing the necessary information, for conducting a specific field development project. Field development plans comprise activities and processes required to develop a field: environmental impact, geophysics, geology, reservoir and production engineering, infrastructure, well design and construction, completion design, surface facilities, economics, and risk assessments.

Field Development Plan is the output of sequences of decisions and discipline-based study activities conducted in geoscience, reservoir engineering, production engineering and reservoir simulation. It is a basis for coming up with a robust way to developing, producing and maintaining hydrocarbon resource. It forms an input for designing associated surface facilities. Combined documents, both subsurface, and surface constitute the basis for the financial decision.

This course is designed to provide participants with an opportunity to learn the fundamental approach in writing a Field Development Plan (FDP). It emphasizes the importance of the sub-surface team (production profiles) working closely with the facilities team(s), in order to maximize the value of the project whilst managing risk. Realistic field examples are used to demonstrate the concepts. Participants will understand the methods of controlling the decision-making process to optimize the development. The course examples will illustrate the typical evaluation of field understanding, with a mixture of predictable and less predictable data acquired.

Course Objectives

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

- Apply and gain a fundamental knowledge on field development planning
- Develop an understanding of the theory and practice of field development planning
- Discuss the different phases of a reservoir life cycle as well as the reason and the need to come up with a field development plan in order to exploit the reservoir
- Identify the different field development options for the reservoir and the industry trends on maturing oil and gas projects
- Recognize the importance and benefits of integration of disciplines through working as a multi-disciplinary team
- Identify uncertainty, its significance and explain the importance of assessing it realistically
- Recognize hydrocarbon accumulations and apply exploration techniques
- Describe data integration and their interdependence
- Apply integration and timing of subsurface and surface for decision making process
- Determine the different interfaces and their relationship, implement data gathering and identify the need for reservoir monitoring
- Analyze key data collected during exploration as well as estimate hydrocarbons in place and estimate recoverable volumes
- Recognize recovery mechanisms and the facilities choice for possible development options
- Estimate development costs at this stage and identify the various components of a field development plan
- Appraise the trade-off between cost and value of data and assess how to ensure that the optimum amount of data is collected
- Describe and relate the importance of commercial goals to technical goals

- List the different tasks and activities that need to be done and reported in a field development plan
- Review the concepts of FDP and introduce the opportunity on framing workflow, road map, risk register and stake holder mapping
- Evaluate the different development options and the key drivers for a successful development
- Identify project risks and key reservoir uncertainties as well as illustrate subsurface evaluation and building models
- Develop a multi-discipline appreciation and team building skills through the team exercises

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 is intended for reservoir engineers, petroleum engineers, production engineers, geoscientists, project managers and those involved in the preparation of field development plans (FDP).

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.

Accommodation

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

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.

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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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.

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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.

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:

	<p>Dr. Chris Kapetan, PhD, MSc, is a Senior Petroleum Engineer with over 30 years of international experience within the onshore and offshore oil & gas industry. His wide experience covers Decision Analytic Modelling Methods for Economic Evaluation, Probabilistic Risk Analysis (Monte Carlo Simulator) Risk Analysis Foundations, Global Oil Demand, Crude Oil Market, Global Oil Reserves, Oil Supply & Demand, Governmental Legislation, Contractual Agreements, Financial Modeling, Oil Contracts, Project Risk Analysis, Feasibility Analysis Techniques, Capital Operational Costs, Oil & Gas Exploration Methods, Reservoir Evaluation, Extraction of Oil & Gas, Crude Oil Types & Specifications, Sulphur, Sour Natural Gas, Natural Gas Sweetening, Petroleum Production, Field Layout, Production Techniques & Control, Surface Production Operations, Oil Processing, Oil Transportation-Methods, Flowmetering & Custody Transfer and Oil Refinery. Further, he is also well-versed in Enhanced Oil Recovery (EOR), Electrical Submersible Pumps (ESP), Oil Industries Orientation, Geophysics, Cased Hole Formation Evaluation, Cased Hole Applications, Cased Hole Logs, Production Operations, Production Management, Perforating Methods & Design, Perforating Operations, Fishing Operations, Well & Reservoir Testing, Reservoir Stimulation, Hydraulic Fracturing, Carbonate Acidizing, Sandstone Acidizing, Drilling Fluids Technology, Drilling Operations, Directional Drilling, Artificial Lift, Gas Lift Design, Gas Lift Operations, Petroleum Business, Petroleum Economics, Field Development Planning, Gas Lift Valve Changing & Installation, Well Completion Design & Operation, Well Surveillance, Well Testing, Well Stimulation & Control and Workover Planning, Completions & Workover, Rig Sizing, Hole Cleaning & Logging, Well Completion, Servicing and Work-Over Operations, Practical Reservoir Engineering, X-mas Tree & Wellhead Operations, Maintenance & Testing, Advanced Petrophysics/Interpretation of Well Composite, Construction Integrity & Completion, Coiled Tubing Technology, Corrosion Control, Slickline, Wireline & Coil Tubing, Pipeline Pigging, Corrosion Monitoring, Cathodic Protection as well as Root Cause Analysis (RCA), Root Cause Failure Analysis (RCFA), Gas Conditioning & Process Technology, Production Safety and Delusion of Asphalt. Currently, he is the Operations Consultant & the Technical Advisor at GEOTECH and an independent Drilling Operations Consultant of various engineering services providers to the international clients as he offers his expertise in many areas of the drilling & petroleum discipline and is well recognized & respected for his process and procedural expertise as well as ongoing participation, interest and experience in continuing to promote technology to producers around the world.</p> <p>Throughout his long career life, Dr. Chris has worked for many international companies and has spent several years managing technically complex wellbore interventions in both drilling & servicing. He is a well-regarded for his process and procedural expertise. Further, he was the Operations Manager at ETP Crude Oil Pipeline Services where he was fully responsible for optimum operations of crude oil pipeline, workover and directional drilling, drilling rigs and equipment, drilling of various geothermal deep wells and exploration wells. Dr. Chris was the Drilling & Workover Manager & Superintendent for Kavala Oil wherein he was responsible for supervision of drilling operations and offshore exploration, quality control of performance of rigs, coiled tubing, crude oil transportation via pipeline and abandonment of well as per the API requirements. He had occupied various key positions as the Drilling Operations Consultant, Site Manager, Branch Manager, Senior Drilling & Workover Manager & Engineer and Drilling & Workover Engineer, Operations Consultant, Technical Advisor in several petroleum companies responsible mainly on an offshore sour oil field (under water flood and gas lift) and a gas field. Further, Dr. Chris has been a Professor of the Oil Technology College.</p> <p>Dr. Chris has PhD in Reservoir Engineering and a Master degree in Drilling & Production Engineering from the Petrol-Gaze Din Ploiesti University. Further, he is a Certified Surfaced BOP Stack Supervisor of IWCF, a Certified Instructor/Trainer, a Certified Trainer/Assessor/Internal Verifier by the Institute of Leadership & Management (ILM) and has conducted numerous short courses, seminars and workshops and has published several technical books on Production Logging, Safety Drilling Rigs and Oil Reservoir.</p>
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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	<i>Registration & Coffee</i>
0800 – 0815	<i>Welcome & Introduction</i>
0815 – 0830	PRE-TEST
0830 – 0930	<i>The Different Phases of a Reservoir Life Cycle</i>
0930 – 0945	<i>Break</i>
0945 – 1100	<i>The Reason & the Need to Come Up with a Field Development Plan in Order to Exploit the Reservoir</i>
1100 – 1230	<i>Introduction of Different Field Development Options for the Reservoir</i>
1230 – 1245	<i>Break</i>
1245 – 1345	<i>Industry Trends on Maturing Oil & Gas Projects</i>
1345 – 1415	<i>Hydrocarbon Accumulations</i>
1415 – 1430	Recap
1430	<i>Lunch & End of Day One</i>

Day 2

0730 – 0930	<i>Overview of Exploration Techniques</i>
0930 – 0945	<i>Break</i>
0945 – 1100	<i>Data Integration & their Interdependence</i>
1100 – 1230	<i>Integration & Timing of Subsurface & Surface for Decision Making Process</i>
1230 – 1245	<i>Break</i>
1245 – 1345	<i>Different Interfaces & their Relationship</i>
1345 – 1415	<i>Data Gathering & Need for Reservoir Monitoring</i>
1415 – 1430	Recap
1430	<i>Lunch & End of Day Two</i>

Day 3

0730 – 0930	<i>Key Data Collected During Exploration</i>
0930 – 0945	<i>Break</i>
0945 – 1100	<i>Estimating Hydrocarbons in Place</i>
1100 – 1230	<i>Estimating Recoverable Volumes</i>
1230 – 1245	<i>Break</i>
1245 – 1345	<i>Recovery Mechanisms</i>
1345 – 1415	<i>Facilities Choice for Possible Development Options</i>
1415 – 1430	Recap
1430	<i>Lunch & End of Day Three</i>

Day 4

0730 – 0930	<i>Estimating Development Costs at this Stage</i>
0930 – 0945	<i>Break</i>
0945 – 1100	<i>Various Components of a Field Development Plan</i>
1100 – 1230	<i>Different Tasks & Activities that Need to be Done & Reported in a Field Development Plan</i>
1230 – 1245	<i>Break</i>

1245 - 1345	<i>Review the Concepts of FDP</i>
1345 -1415	<i>Introduction to Opportunity Framing Workflow, Road Map, Risk Register & Stake Holder Mapping</i>
1415 - 1430	<i>Recap</i>
1430	<i>Lunch & End of Day Four</i>

Day 5

0730 - 0930	<i>Evaluating the Different Development Options</i>
0930 - 0945	<i>Break</i>
0945 - 1145	<i>What are the Key Drivers for a Successful Development?</i>
1145 - 1230	<i>Identifying Project Risks</i>
1230 - 1245	<i>Break</i>
1245 - 1315	<i>Identifying Key Reservoir Uncertainties</i>
1315 - 1345	<i>Subsurface Evaluation & Building Models</i>
1345 - 1400	<i>Course Conclusion</i>
1400 - 1415	<i>POST-TEST</i>
1415 - 1430	<i>Presentation of Course Certificates</i>
1430	<i>Lunch & End of Course</i>

Practical Sessions

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



Course Coordinator

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