



COURSE OVERVIEW DE0337
Petrel Fundamentals

Course Title

Petrel Fundamentals

Course Date/Venue

Session 1: October 06-10, 2024/Oryx Meeting Room, DoubleTree By Hilton Doha-Al Sadd, Doha, Qatar

Session 2: December 08-12, 2024/Oryx Meeting Room, DoubleTree By Hilton Doha-Al Sadd, Doha, Qatar



Course Reference

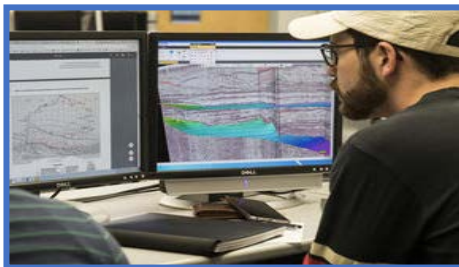
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Course Duration/Credits

Five days/3.0 CEUs/30 PDHs

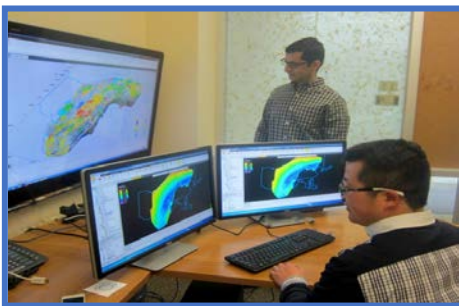
Course Description



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 introduces new users to Petrel functionality with emphasis on visualization, data organization and collaboration. It covers basic usage of the application, providing an understanding of how to get started with Petrel.



During this highly interactive course, participants will learn the Petrel basic and its interface; the retrieval and preparing data; the visualization, quality check and seismic reconnaissance; the creation of surfaces and simple grid; the geometrical modeling and plotting; the Petrel user interface and finding data; reviewing the data display in the well section window and performing log editing; the well correlation, isochore and isopach processing; and the 2D gridding, quality improvement, surface editing, operations, log property mapping and map-based volume calculations.



Course Objectives

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

- Apply and gain a basic knowledge on Petrel fundamental and Petrel geology
- Discuss Petrel basics and describe its interface
- Retrieve and prepare data as well as employ visualization, quality check and seismic reconnaissance
- Create surfaces and simple grid and illustrate geometrical modeling and plotting
- Discuss Petrel user interface and find data
- Review data display in the well section window and perform log editing
- Identify well correlation, isochore and isopach processing
- Carryout 2D gridding, quality improvement, surface editing, operations, log property mapping and map-based volume calculations

Exclusive Smart Training Kit - H-STK®



Participants of this course will receive the exclusive “Howard 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 Petrel fundamental and Petrel geology for managers, development and exploration geologists, geophysicists, geochemists, geoscientists, petroleum engineers and technical IT personnel with no prior experience in petrel software.

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


US\$ 8,500 per Delegate. This rate includes H-STK® (Howard 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.

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:



Ms. Diana Helmy, PgDip, MSc, BSc, is a Senior Petroleum & Geologist with extensive years of experience within the Oil & Gas, Refinery and Petrochemical industries. Her expertise widely covers in the areas of Tubular & Pipe Handling, Tubular Strength, Casing & Tubing Design, Production/Injection Loads for Casing Strings & Tubing, Drilling Loads, Drilling & Production Thermal Loads, Well Architecture, Wellhead Integrity, Well Integrity & Artificial Lift, Well Integrity Management, Well Completion & Workover, Applied Drilling

Practices, Horizontal Drilling, Petroleum Production, Resource & Reserve Evaluation, Reserves Estimation & Uncertainty, Methods for Aggregation of Reserves & Resources, Horizontal & Multilateral Wells, Well Completion & Stimulation, Artificial Lift System Selection & Design, Well Testing & Oil Well Performance, Well Test Design Analysis, Well Test Operations, Well Testing & Perforation, Directional Drilling, Formation Damage Evaluation & Preventive, Formation Damage Remediation, Drilling & Formation Damage, Simulation Program for The International Petroleum Business, Well Testing & Analysis, Horizontal & Multilateral Wells & Reservoir Concerns, Oil & Gas Analytics, Petrophysics & Reservoir Engineering, Subsurface Geology & Logging Interpretation, Petroleum Geology, Geophysics, Seismic Processing & Exploration, Seismic Interpretation, Sedimentology, Stratigraphy & Biostratigraphy, Petroleum Economy, Core Analysis, Well Logging Interpretation, Core Lab Analysis & SCAL, Sedimentary Rocks, Rock Types, Core & Ditch Cuttings Analysis, Clastic, Carbonate & Basement Rocks, Stratigraphic Sequences, Petrographically Analysis, Thin Section Analysis, Scanning Electron Microscope (SEM), X-ray Diffraction (XRD), Cross-Section Tomography (CT), Conventional & Unconventional Analysis, Porosity & Permeability, Geological & Geophysical Model, Sedimentary Facies, Formation Damage Studies & Analysis, Rig Awareness, 2D&3D Seismic Data Processing, Static & Dynamic Correction, Noise Attenuation & Multiple Elimination Techniques, Velocity Analysis & Modeling and various software such as Petrel, OMEGA, LINUX, Kingdom and Vista. She is currently a Senior Consultant wherein she is responsible in different facets of Petroleum & Process Engineering from managing asset integrity, well integrity process, pre-commissioning/commissioning and start up onshore & offshore process facilities.

During her career life, Ms. Diana worked as a **Reservoir Geologist, Seismic Engineer, Geology Instructor, Geoscience Instructor & Consultant and Petroleum Geology Researcher** from various international companies like the **Schlumberger, Corex Services for Petroleum Services, Petrolia Energy Supplies and Alexandria University.**

Ms. Diana has a **Postgraduate Diploma in Geophysics, Master's degree in Petroleum Geology and Geophysics and a Bachelor's degree in Geology.** Further, she is a **Certified Trainer/Assessor/Internal Verifier** by the **Institute of Leadership & Management (ILM)** 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

0730 - 0800	Registration & Coffee
0800 - 0815	Welcome & Introduction
0815 - 0830	PRE-TEST
0830 - 0930	Petrel Basics & Interface
0930 - 0945	Break
0945 - 1100	Retrieve & Prepare Your Data
1100 - 1230	Visualization & QC
1230 - 1245	Break
1245 - 1420	Seismic Reconnaissance
1420 - 1430	Recap
1430	Lunch & End of Day One

Day 2

0730 - 0930	Make Surfaces
0930 - 0945	Break
0945 - 1100	Make Simple Grid
1100 - 1230	Geometrical Modeling
1230 - 1245	Break
1245 - 1420	Plotting
1420 - 1430	Recap
1430	Lunch & End of Day Two

Day 3

0800 - 0930	Petrel User Interface
0930 - 0945	Break
0945 - 1100	Find Your Data
1100 - 1230	Data Display in the Well Section Window
1230 - 1245	Break
1245 - 1420	Log Editing
1420 - 1430	Recap
1430	Lunch & End of Day Three

Day 4

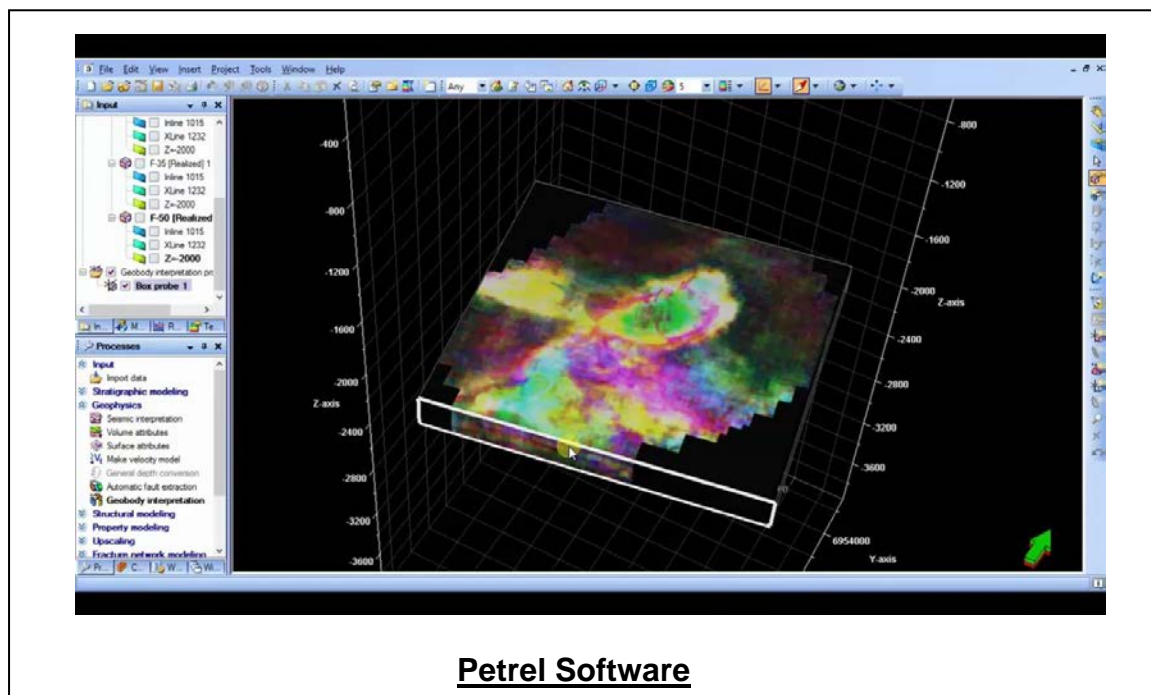
0730 - 0930	Well Correlation
0930 - 0945	Break
0945 - 1100	Isochore & Isopach Processing
1100 - 1230	2D Gridding & Quality Improvement
1230 - 1245	Break
1245 - 1420	Surface Editing & Operations
1420 - 1430	Recap
1430	Lunch & End of Day Four

Day 5

0730 – 0930	<i>Log Property Mapping</i>
0930 – 0945	<i>Break</i>
0945 – 1100	<i>Log Property Mapping (cont'd)</i>
1100 – 1230	<i>Map-Based Volume Calculations</i>
1230 – 1245	<i>Break</i>
1245 – 1345	<i>Map-Based Volume Calculations (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>

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 one of our state-of-the-art simulators “Petrel software”.



Course Coordinator

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