



### COURSE OVERVIEW DE0747(SI7)

### Operations Geology

#### Course Title

Operations Geology

#### Course Date/Venue

Session 1: February 23-27, 2025/Boardroom 1,  
Elite Byblos Hotel Al Barsha, Sheikh  
Zayed Road, Dubai, UAE

Session 2: August 25-29, 2025/Fujairah Meeting  
Room, Grand Millennium Al Wahda  
Hotel, Abu Dhabi, UAE

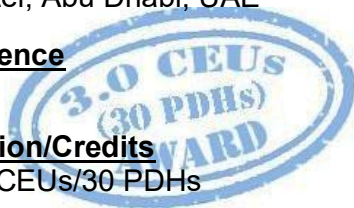


#### Course Reference

DE0747(SI7)

#### 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.***



This course is designed to provide participants with a detailed and up-to-date overview of operations geology. It covers planning and preparing for a drilling location and geological services; the petroleum geology and its systems; the prospect to well planning and provision of geological services in operations geology; the geological sampling, sample analysis, well stratigraphy, cutting and core description in well site geology; and the fractures, faults and borehole geology in structural geology.



During this interactive course, participants will learn the geological drilling hazards; the drilling operations, evaluate drilling reports and describe drilling cutting and cores; performing logging operations and well testing services; the impact on the field development plan (FDP); tendering and contracting as well as prepare and compile operations reports for geological data, petrophysical data and pressure data; and the various exercises for cores, cutting, quick look, pressures and daily drilling report.



### Course Objectives

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

- Apply and gain comprehensive knowledge on geology operations
- Plan and prepare for a drilling location and geological services
- Discuss petroleum geology and its systems
- Recognize the prospect to well planning and provision of geological services in operations geology
- Carryout geological sampling, sample analysis, well stratigraphy, cutting and core description in well site geology
- Illustrate fractures, faults and borehole geology in structural geology
- Identify geological drilling hazards as well as employ drilling operations, evaluate drilling reports and describe drilling cutting and cores
- Perform logging operations and well testing services
- Evaluate the impact on the field development plan (FDP)
- Apply tendering and contracting as well as prepare and compile operations reports for geological data, petrophysical data and pressure data
- Demonstrate various exercises for cores, cutting, quick look, pressures and daily drilling report

### 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 geology operations for all geoscientists, petroleum engineers, well engineers and technical personnel who are directly involved in subsurface and wellsite operations.

### 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 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 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. Ron Guney, MSc, BSc, is a Senior Geophysicist with over 30 years of Offshore & Onshore experience within the Oil, Gas, Refinery and Petrochemical industries. His expertise widely covers Geophysics, Geophysical Technology, Borehole Geophysics, Seismology, Wave Propagation & Velocities, Seismic Acquisition Techniques, Seismic Data Processing, Vertical Seismic Profiling (VSP), Seismic Data Interpretation, Geomodelling, Prospect Generation-Delineation & Reservoir Modelling, Static Modelling, Prospect Generation through Seismic Structural & Stratigraphic Interpretation, Play Assessment & Prospect Evaluation, Prospect-Play Risk Assessment & Ranking, Resource & Reserve Estimations, Post Stack Seismic Attribute Analysis, Post Stack Seismic Inversion, Traveltime Inversion, Crossborehole Seismic Tomography, Seismic Sequence Stratigraphy, Program Coding (VSP & Cross-borehole Travel Time Inversion ART and SIRT), Post Drill Well Assessment, Field Development, Seismostratigraphy, Seismotectonics & Geodynamics & Modelling, Cartographic Information Systems (CIS), Geographic Information Systems (GIS), Geodesy & Topography, Geodesy, Map Projections & Coordinate Systems, Geological Maps (GM), Topographic & Geologic Maps, Cartography Assisted by Computer (CAC), Global Positional System (GPS), Petroleum Geology, Advanced Petrophysics, Petroleum Exploration, Petroleum Economics, Drilling, Core-to-Log Data Integration (SCAL), Basin Modelling & Total Petroleum System (TPS), Well Logging, Formation Evaluation, Well Testing & Data Interpretation, Pore Pressure Prediction and Oil & Gas Reserves Estimations. He is also an expert in 2D & 3D Seismic Interpretation Oil Risk Analysis, Landmark, Zmap+ Mapping Package, Petrel Schlumberger, Promax Processing System and 3D Seismic Data Acquisition. Currently, he is the Senior Geophysicist Consultant of Eastern Offshore Black Sea E&P Projects.**

During his long career, Mr. Guney has gained his practical and field experience through his various significant positions and dedication as the **Senior Geophysicist Consultant, Senior Geophysicist, Senior Project Geophysicist, Teaching Assistant, Lecturer, Instructor/Trainer** from numerous international companies such as the Eastprime Service Co., Emirates National Oil Company (ENOC) - Dragon Oil, OMV Petrol and Turkish Petroleum Corp, just to name a few.

Mr. Guney has a **Master's** degree in **Geology** from the **University of New Orleans, USA** and a **Bachelor's** degree in **Geophysics** from the Istanbul Technical University. Further, he is a **Certified Instructor/Trainer**, a **Certified Trainer/Assessor** by the **Institute of Leadership & Management (ILM)** and has **published books and scientific papers** such as Iterative Wavefront Reconstruction Technique (IWR), **Mathematical Geophysics, Model Optimisation in Exploration Geophysics, Importance of Seismic Interpretation Systems** and delivered various trainings, seminars, workshops, courses and conferences worldwide.



**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	<b>PRE-TEST</b>
0830 – 0930	<b>Planning &amp; Preparation for a Drilling Location &amp; Geological Services</b>
0930 – 0945	Break
0945 – 1115	<b>Petroleum Geology &amp; its Systems</b>
1115 – 1215	<b>Operations Geology</b> Prospect to Well Planning
1215 – 1230	Break
1230 – 1420	<b>Operations Geology (cont'd)</b> Provision of Geological Services
1420 – 1430	<b>Recap</b>
1430	Lunch & End of Day One

**Day 2**

0730 – 0930	<b>Wellsite Geology</b> Geological Sampling • Sample Analysis
0930 – 0945	Break
0945 – 1115	<b>Wellsite Geology (cont'd)</b> Well Stratigraphy • Cutting & Core Description
1115 – 1215	<b>Structural Geology</b> Fractures • Faults • Borehole Geology
1215 – 1230	Break
1230 – 1420	<b>Geological Drilling Hazards</b>
1420 – 1430	<b>Recap</b>
1430	Lunch & End of Day Two

**Day 3**

0730 – 0930	<b>Drilling Operations</b> Bits • Fluids • Casing & Cement
0930 – 0945	Break
0945 – 1115	<b>Drilling Operations (cont'd)</b> Drilling Problems & Well Control • Directional Drilling • Geosteering
1115 – 1215	<b>Evaluating Drilling Reports</b>
1215 – 1230	Break
1230 – 1420	<b>Drilling Cutting &amp; Cores</b>
1420 – 1430	<b>Recap</b>
1430	Lunch & End of Day Three



**Day 4**

0730 – 0930	<b>Logging Operations</b> <i>Acquisition • Tools • Quick Look Interpretation • MWD/LWD • Geosteering</i>
0930 – 0945	<i>Break</i>
0945 – 1115	<b>Well Testing &amp; Fluids</b> <i>Reservoir Properties • Rock &amp; Fluid Interaction</i>
1115 – 1215	<b>Well Testing &amp; Fluids (cont'd)</b> <i>Permeability • Averaging • Data Gathering &amp; Interpretation</i>
1215 – 1230	<i>Break</i>
1230 – 1420	<b>Impact on FDP</b> <i>Case Histories</i>
1420 – 1430	<b>Recap</b>
1430	<i>Lunch &amp; End of Day Four</i>

**Day 5**

0730 – 0930	<b>Tendering &amp; Contracting</b>
0930 – 0945	<i>Break</i>
0945 – 1115	<b>Reporting</b> <i>Geological Data • Petrophysical Data • Pressure Data</i>
1115 – 1215	<b>Exercises</b> <i>Cores • Cutting • Quick Look</i>
1215 – 1230	<i>Break</i>
1230 – 1345	<b>Exercises (cont'd)</b> <i>Pressures • Daily Drilling Report</i>
1345 – 1400	<b>Course Conclusion</b>
1400 – 1415	<b>POST-TEST</b>
1415 – 1430	<i>Presentation of Course Certificates</i>
1430	<i>Lunch &amp; End of Course</i>



### **Practical Sessions**

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



### **Course Coordinator**

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