

**COURSE OVERVIEW DE1059**  
**Well Integrity of Cased Hole**

**Course Title**

Well Integrity of Cased Hole

**Course Date/Venue**

Session 1: April 21-25, 2025/Fujairah Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE

Session 2: October 26-30, 2025/Boardroom 1, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE



**Course Reference**

DE1059

**Course Duration/Credits**

Five days/3.25 CEUs/32.5 PDHs



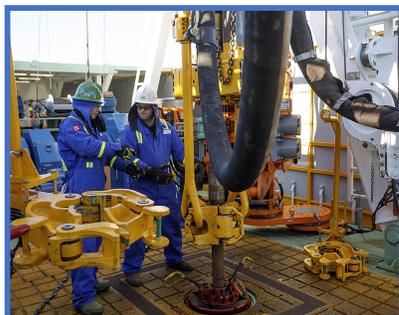
**Course Description**



***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 well integrity - cased hole logging and monitoring. It covers the problems causing well integrity, depth control in cased hole and well head pressure control; the leak detection tools, spontaneous potential electro-kinetic anomalies and borehole spinner; the primary cementing and squeeze cementing; the cement evaluation tools, cement quality effects on initiation corrosion and on the rate of corrosion; the various corrosion mechanisms; the factors that initiates and propagates the various corrosion mechanisms; and the corrosion monitoring, flux leakage tools and electric current leakage tool.



During this interactive course, participants will learn the cathodic protection and perforation; the temperature logging tools and their applications under shut-in and flowing conditions; the permanent fibre optics temperature sensors, theory and applications and uneven depletion and resulting crossflow; the basic production logging, spinner calibrations and using 2 chokes to estimate productivity index; the productivity index (pi) and reservoir pressure (pr) for each zone; and the as well as inter-zone crossflow caused by uneven depletion and water and gas coning.

### Course Objectives

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

- Apply and gain an in-depth knowledge on well integrity, cased hole logging and monitoring
- Identify the problems causing well integrity and discuss depth control in cased hole and well head pressure control
- Identify leak detection tools, spontaneous potential electro-kinetic anomalies and borehole spinner
- Describe primary cementing and squeeze cementing as well as identify the cement evaluation tools
- Recognize the cement quality effects on initiation corrosion and on the rate of corrosion
- Identify various corrosion mechanisms and the various factors that initiates and propagates the various corrosion mechanisms
- Carryout corrosion monitoring and identify the flux leakage tools and electric current leakage tool
- Apply cathodic protection and perforation as well as use temperature logging tools and identify their applications under shut-in and flowing conditions
- Discuss permanent and fibre optics temperature sensors, theory and applications and uneven depletion and resulting crossflow
- Illustrate basic production logging, spinner calibrations and using 2 chokes to estimate productivity index
- Estimate productivity index (pi) and reservoir pressure (pr) for each zone as well as inter-zone crossflow caused by uneven depletion
- Recognize water and gas coning

### 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 a basic overview of all significant aspects and considerations of well integrity - cased hole logging and monitoring for drilling engineers, well services engineers, drilling and production engineers, drilling specialists and petro physicists working closely to drilling & production operations. This course is also beneficial for drilling, integrity and technical support divisions technical staff.

**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: -

- 

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.

- 

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. Samer Shukri**, BSc, IWCF, is a **Senior Drilling & Petroleum Engineer** with over **25 years** of **offshore** and **onshore** experience in the **Oil & Gas, Refinery & Petrochemical** industries. His wide expertise includes **Workovers & Completions, Well Completion Design & Operations, Well Intervention, Well Life Cycle, Well Stimulation & Workover Planning, Workover Practices, Workover Operations, Well Integrity System, Well Control, Oil & Water Wells, Workover/Remedial Operations & Heavy Oil Technology, Plug & Abandonment of Oil & Gas Wells, Petroleum Engineering, Open Hole &**

**Cased Hole Logs, Petroleum Risk & Decision Analysis, Well Testing Analysis, Stimulation Operations, Coiled Tubing Operations, Coiled Tubing Equipment, Rigless Operations, Reserves Evaluation, Reservoir Fluid Properties, Reservoir Engineering & Simulation Studies, Reservoir Monitoring, Geology & Reservoir Engineering, Artificial Lift Design, Gas Operations, Applied Water Technology, Oil & Gas Production, X-mas Tree & Wellhead Operations & Testing, Wellbore Design & Construction, Drilling Fluids & Solids Control, Drilling Fluids & Cementing Operations, Drilling Practices & Techniques, Well Control & Blow Out Prevention, Stuck Piping & Fishing Operations, Rig Equipment Maintenance & Inspection, Rigging & Lifting Operations, WellCAP Driller, WellCAP Supervisor, Artificial Lift Systems (Gas Lift, ESP and Rod Pumping), Well Cementing, Oil Field Cementing, Production Optimization, PLT Correlation, Slickline Operations, Well Testing, Production Logging, Wireline Logging, Wireline Technology, Wireline Fishing Operations, Project Evaluation & Economic Analysis.** Further, he is also well-versed in Marine Environment Protection, Maritime Professional Training, Operational Audit, Improvement, Planning & Management, Climate Change & Emissions Trading Services, International Trade & Shipping, **Fitness for Service-API 579, Refining Process & Petroleum Products, OSHA** (General Industry & Construction), **IOSH** (Managing Safety, Working Safely), **HSE Standards & Procedures** in the Oilfield, **HSE Principles, Incident Prevention & Incidents, Working at Height, First Aid, H2S Awareness, Defensive Driving, Risk Assessment, Authorized Gas Tester (AGT), Confined Space Entry (CSE), Root Cause Analysis (RCA), Negotiation & Persuasion Skills, ISO-9001 Quality Management System (QMS), ISO-14001 Environmental Management System (EMS), ISO-45001 Occupational Health and Safety Management System (OHSMS), ISO-17020 Conformity Assessment, ISO/TS-29001 Quality Management System, IOS-50001-Energy Management System (EnMS) and Basic Offshore Safety Induction & Emergency.** Currently, he is actively involved in **Project Management** with special emphasis in **commissioning of new wells, completion design, well integrity management, production technology** and field optimization, performing conceptual studies, economic analysis with risk assessment and field development planning.

During his career life, Mr. Samer has gained his field experience through his various significant positions and dedication as the **Senior Production Engineer, Well Services Department Head, Senior Well Services Supervisor, Senior Well Integrity Engineer, Senior HSE Engineer, Well Services Supervisor, Drilling/Workover Supervisor, International oil & Gas Trainer, Leadership & Management Instructor** and **Senior Instructor/Trainer** from the various international companies such as the **ADCO, Al Furat Petroleum Company (AFPC), Syrian Petroleum Company (SPC), Petrotech, Global Horizon-UK, HDTC, Petroleum Engineers Association, STC, Basra University and Velesto Drilling Academy**, just to name a few.

Mr. Samer has **Bachelor's degree in Petroleum Engineering.** Further, he is an **Accredited IWCF Drilling & Well Intervention Instructor, a Certified Instructor/Trainer, a Certified Train-the-Trainer** and further delivered innumerable training courses, seminars, conferences and workshops worldwide.

**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 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 &amp; Coffee</i>
0800 – 0815	<i>Welcome &amp; Introduction</i>
0815 – 0830	<b>PRE-TEST</b>
0830 – 0900	<i>Introduction to Well Integrity: Why Monitor Well Integrity?</i>
0900 – 0930	<i>Overview: Problems Causing Well Integrity</i>
0930 – 0945	<i>Break</i>
0945 – 1100	<i>Depth Control in Cased Hole</i>
1100 – 1230	<i>Well Head Pressure Control</i>
1230 – 1245	<i>Break</i>
1245 – 1330	<i>Leak Detection Tools</i>
1330 - 1420	<i>Spontaneous Potential Electro-Kinetic anomalies</i>
1420 – 1430	<b>Recap</b>
1430	<i>Lunch &amp; End of Day One</i>

**Day 2**

0730 – 0830	<i>Borehole Spinner</i>
0830 – 0930	<i>Primary Cementing</i>
0930 – 0945	<i>Break</i>
0945 – 1100	<i>Squeeze Cementing</i>
1100 – 1230	<i>Cement Evaluation Tools</i>
1230 – 1245	<i>Break</i>
1245 – 1330	<i>Field Examples of Cement Evaluations</i>
1330 - 1420	<i>Corrosion Mechanisms: Various Corrosion Mechanisms</i>
1420 – 1430	<b>Recap</b>
1430	<i>Lunch &amp; End of Day Two</i>

**Day 3**

0730 – 0830	<i>Multimedia Display of the Various Corrosion Mechanisms</i>
0830 – 0930	<i>Outline of the Various Factors that Initiates and Propagates the Various Corrosion Mechanisms</i>

0930 – 0945	<i>Break</i>
0945 - 1100	<b><i>Corrosion Monitoring</i></b>
1100 – 1230	<b><i>The Physics of the Various Corrosion Monitoring Tools</i></b>
1230 – 1245	<i>Break</i>
1245 – 1330	<b><i>Flux Leakage Tools</i></b>
1330 - 1420	<b><i>Electric Current Leakage Tool</i></b>
1420 – 1430	<b><i>Recap</i></b>
1430	<i>Lunch &amp; End of Day Three</i>

**Day 4**

0730 – 0830	<b><i>Cathodic Protection</i></b>
0830 – 0930	<b><i>Perforation</i></b>
0930 – 0945	<i>Break</i>
0945 – 1030	<b><i>Temperature Logging Tools and their Applications Under Shut-In and Flowing Conditions</i></b>
1030 – 1130	<b><i>Permanent Temperature Sensors</i></b>
1130 - 1230	<b><i>Fibre Optics Temperature Sensors</i></b>
1230 – 1245	<i>Break</i>
1245 – 1330	<b><i>Theory and Applications</i></b>
1330 - 1420	<b><i>Uneven Depletion and Resulting Crossflow</i></b>
1420 – 1430	<b><i>Recap</i></b>
1430	<i>Lunch &amp; End of Day Four</i>

**Day 5**

0730 – 0830	<b><i>Basic Production Logging</i></b>
0830 – 0930	<b><i>Spinner Calibrations</i></b>
0930 – 0945	<i>Break</i>
0945 – 1030	<b><i>Using 2 Chokes to Estimate Productivity Index</i></b>
1030 – 1130	<b><i>Estimating Productivity Index (PI) and Reservoir Pressure (Pr) for Each Zone</i></b>
1130 – 1230	<b><i>Estimating the Inter-Zone Crossflow Caused by Uneven Depletion</i></b>
1230 – 1245	<i>Break</i>
1245 - 1345	<b><i>Water &amp; Gas Coning</i></b>
1345 - 1400	<b><i>Course Conclusion</i></b>
1400 - 1415	<b><i>POST-TEST</i></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**

Mari Nakintu, Tel: +971 2 30 91 714, Email: [mari1@haward.org](mailto:mari1@haward.org)