

COURSE OVERVIEW DE0751 Wireline Operations & Techniques (Slickline & E-Wireline)

CEUS

(30 PDHs)

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Course Title

Wireline Operations & Techniques (*Slickline & E-Wireline*)

Course Reference

DE0751

Course Duration/Credits

Five days/3.0 CEUs/30 PDHs

Course Date/Venue



Session(s)	Date	Venue
1	April 27-May 01, 2025	Meeting Plus 9, City Centre Rotana, Doha Qatar
2	June 29-July 03, 2025	Olivine Meeting Room, Fairmont Nile City, Cairo, Egypt
3	September 21-25, 2025	Safir Meeting Room, Divan Istanbul, Turkey
4	December 21-25, 2025	Boardroom 1, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE

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.

Many of today's most vital oilfield operations depend directly on the use of wireline. Wireline is particularly important during completion and production. Field operators can run anything from a basic downhole directional survey to the most delicate gamma ray formation log on wireline. They can fire perforating charges at precisely determined downhole locations, back off a string of stuck pipe, retrieve a wrench, or manipulate complex subsurface well pressure and flow controls.

Wireline operations can be done inside the tubing without killing the well, by means of a lubricator connected to the wellhead. Operations can be carried out under pressure and even without stopping production. Further, wireline operations are performed quickly due to the use of lightweight, highly mobile equipment and run by two or three specialized operators. As a result, wireline operations can be readily implemented at relatively low cost.



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Wireline technology has been modernized steadily, along with significant improvements in wireline capability. During the past decades, Wireline Formation Testing has emerged as one of the critical formation evaluation means in the upstream hydrocarbon exploration activities. The wireline formation test is a quick, inexpensive means of measuring pressures at precise depths in the wellbore. Wireline tests are performed mostly in open hole using a cable-operated formation tester and sampling tool anchored at depth while reservoir communication is established through one or more pressure and sampling probes.

This comprehensive and up-to-date course covers the development of wireline operations and techniques. It describes wireline equipment in details and discusses the various operations performed using such equipment including diagnostic, troubleshooting, completion and production maintenance. Further, the course covers the openhole wireline testing, the wireline sampling techniques and the drawdown & buildup mobilities from wireline testers. The course ends up with a useful demonstration of the various wireline test interpretation software.

Course Objectives

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

- Apply an up-to-date knowledge on wireline equipment, techniques and operations during well completion, servicing, workover and production
- Identify different types of packers and methods of conveyance, ISO & API standards, packer rating envelopes and flow control accessories, cased hole applications and multilateral completions (TAML levels)
- Discuss the impact of length and force changes to the tubing strings, perforating methods & perforating design,
- Describe perforating equipment & operations and the method of setting a plug or packer
- Employ fishing operations and logging with CT (stiff wireline)
- Explain the planning, logistical constraints, selection of equipment, monitoring and recording equipment, considerations and safety issues of mechanically removing scale, cutting tubulars, operating sliding sleeves and running a completion with CT

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 essential for field operational and technical staff such as engineers, supervisors, foremen, technicians and operators who are in charge of wireline operations and for other personnel who have frequent interfaces with wireline operations. This is also beneficial for production engineer, wireline supervisor, district engineer, drilling engineer and operation engineer.



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Training Methodology

All our Courses are including **Hands-on Practical Sessions** using equipment, State-ofthe-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

Doha	US\$ 8,500 per Delegate. This rate includes H-STK [®] (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.
Cairo	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.
Istanbul	US\$ 8,500 per Delegate + VAT . This rate includes H-STK [®] (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.
Dubai	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 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 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. Brendon Billings, MSc, BSc, is a **Senior Petroleum Engineer** and **Well Service Consultant** with over **30 years** of international experience in **Drilling/Reservoir/Petroleum Engineering** and **Well Service Operations**. He is a **recognized authority** in "Hands On" **Service and Drilling Operations**, Well Completions (Riggless Operations), Product Optimization, Wellhead Operations, Wellbore Interventions, High Volume Lift Project Management,

Reservoir Optimization, Well Testing, Wire/Slickilne Equipment and Operations, Coil Tubing, Water Flooding, Electric Submersible Pumps (ESPs), Gas Lifts & Steam Assist Gravity Drain (SAGD) Applications, Facility Inspection, Root Cause Failure Management and Power Factor Management. Currently, he is the President of a large specialized engineering services provider to the North-American Sedimentary Basin Production and other international clients. Moreover, he occupies a consultant position and remains to offer his expertise in many areas of the drilling discipline and is well recognized & respected for his process, procedural expertise, modus operandi as well as ongoing participation, interest and experience in continuing to promote technology to producers around the world.

Throughout his long career life, Mr. Billings 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, procedural expertise and modus operandi. Further, he was the Projects Manager at Sherrit Petreola where he was fully responsible for all Reservoir Development activities. He has spent more than 2000 days total on Rig Floors for Drilling (onshore/offshore) and Well Servicing Operations jobs. Mr. Billings was the Senior Applications Expert for Schlumberger Canada (REDA Services) where he was greatly involved in high volume lift and reservoir optimization projects including specialty endeavours like SAGD and Gas Lift. He lead special projects for alternative technology applications and was referred to as the 'technical specialist' for severe services on ESP applications and had provided in-house & client instruction for ESP application schooling. Previously, he was the Artificial Lift Services Developer for **Weatherford**, a leading provider of oilfield services equipment for drilling, evaluation, completion, production and intervention areas. Herein, he was tasked to introduce new ESP technology and lead a project team for ESP facility development & design. Much earlier in his career, he has held positions such as **Operations Supervisor**, Project Riq Consultant. Manager, Regional Manager, Engineering Representative, International Engineering Support Technician, Facility Services Manager and Power Plant Engineer.

Mr. Billings has Master and Bachelor degrees in Petroleum Engineering and Power Engineering. He is a licensed Professional Engineer, a Certified Instructor/Trainer and a well respected member of the Society of Petroleum Engineers (SPE). Further, he has conducted numerous industry short courses and SPE workshops.



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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:

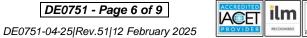
Day 1	
0730 - 0800	Registration & Coffee
0800 - 0815	Welcome & Introduction
0815 - 0830	PRE-TEST
0830 - 0930	Packers & Methods of ConveyanceRetrievableTension/CompressionSet-VersatileLandingRetrievableHydraulic-Set single-String Packer• Dual-String Packers• Permanent andRetrievableSealborePackers• LandingConditions• Through-TubingOperations• Casing Clean-up Operations• Other Casing Consideration
0930 - 0945	Break
0945 – 1100	ISO & API Standards Grade V6 Supplier/Manufacturer Defined • Grade V5 Liquid Test • Grade V4 Liquid Test + Axial Loads • Grade V3 Liquid Test = Axial Loads + Temperature Cycling • Grade V2 Gas Test + Axial Loads • Garde V1 Gas Test + Axial Loads + Temperature Cycling • Special Grade V0 Gas Test + Axial Loads + Temperature Cycling + Bubble Tight Gas Seal
1100 – 1230	Packer Rating Envelopes & Flow Control AccessoriesWireline Re-entry GuidesProfile Seating NipplesTop No-Go ProfileSeating NippleBottom No-Go Profile Seating NippleSelective ProfileSeating NippleSliding SleevesBlast JointsFlow CouplingsBlanking PlugsBottomhole ChokeSubsurface Safety Systems
1230 – 1245	Break
1245 - 1420	Cased-Hole ApplicationsSingle-String LP/LT WellsSingle-String-Medium-Pressure/Medium-Temperature WellsSingle-String HP/HT WellsMultiple-Zone Single-StringSelective CompletionDual-Zone Completion Using Parallel TubingStringsBig-Bore/Monobore Completions
1420 - 1430	Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow
1430	Lunch & End of Day One

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0730 - 0930	Multilateral Completions
	TAML Level 1 • TAML Level 2 • TAML Level 3 • TAML Level 4 •
	TAML Level 5 • TAML Level 6
0930 - 0945	Break
0945 - 1100	Impact of Length and Force Changes to the Tubing String
	Piston Effect • Buckling Effects • Ballooning and Reverse Ballooning •
	Temperature Effect • Net Results of Piston, Buckling, Ballooning and
	Temperature Effects • Combination Tubing/Packer Systems
	Perforating Methods & Basic Perforating Design
1100 – 1230	Bullet Gun perforating • Abrasive Perforating Methods • Variables of Flow
	Through a Perforation • Temperature Effect • What is Necessary for the
	Optimum Flow Path • Improving Flow Capacity



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1230 - 1245	Break
1245 – 1420	 Perforating Methods & Basic Perforating Design (cont'd) Cement and Casing Damage • Perforating Multiple Strings and Thick Cement • Perforating for Different Stimulations • Perforating in Highly Deviated Wells
1420 – 1430	Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow
1430	Lunch & End of Day Two

Day 3

Day S	
0730 – 0930	Perforating Equipment & Operations
	Detonator Systems • Conveyance Systems • Getting On Depth •
	Perforating Fluid • Limited Penetration charges • Planning a Perforating Job
	• Job Plan Inputs • Depth Control • Firing Mechanism • Gun and
	Carrier Selection • High Temperature and Pressure • H2S and Acids •
	Computer Simulator Modeling • Job Plan Outputs
0930 - 0945	Break
	Perforating Equipment & Operations (cont'd)
	Selecting Equipment for Perforating • Generic Procedure for Perforating •
0045 1100	Preparing the Wellbore • Preparing the Equipment • Assembling and
0945 – 1100	Deploying the Gun • Correlating Depth and Perforating • Gun Recovery •
	Monitoring a Perforating Job • Safety Issues for Perforating • Before the
	Operation • During the Operation • After Firing
	Setting a Plug or Packer
	Planning to Set a Plug or Packer • Job Plant Inputs • Operating
	Temperature • Operating Pressure • Fluid Compatibility • Setting
1100 – 1230	Mechanism • Recoverability • Computer Simulator Modeling • Job Plan
	<i>Outputs</i> • Selecting Equipment for Setting a Plug or Packer • CT Equipment
	 Pressure Control Equipment Downhole Tools
1230 - 1245	Break
	Setting a Plug or Packer (cont'd)
	Pumping Equipment • Monitoring and Recording Equipment • Generic
	Procedure for Setting a Plug or Packer • Preparing the Wellbore • Preparing
1245 – 1420	the Equipment • Setting the Plug or Packer • Unsetting the Packer and
	Recovering the Tool String • Monitoring a Plug or Packer Job • Safety Issues
	for Setting a Plug or Packer
1420 - 1430	Recap
	Using this Course Overview, the Instructor(s) will Brief Participants about the
	Topics that were Discussed Today and Advise Them of the Topics to be
	Discussed Tomorrow
1430	Lunch & End of Day Three

Day 4

	Fishing Operations
	Planning a Fishing Job • Job Plan Inputs • Fish Properties • Condition of
0730 - 0930	the Fish • Wellbore Geometry • Surface Equipment • Logistical Constraints
	Computer Simulator Modeling Job Plan Outputs Selecting Equipment
	for Fishing • CT Equipment



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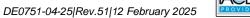
0930 - 0945	Break
0945 - 1100	<i>Fishing Operations (cont'd)</i> <i>Pressure Control Equipment</i> • <i>Downhole Tools</i> • <i>Pumping Equipment</i> • <i>Monitoring and Recording Equipment</i> • <i>Generic Procedure for Fishing</i> • <i>Preparing the Welibore</i> • <i>Preparing the Equipment</i> • <i>Safety Issues for Fishing</i>
1100 – 1230	Logging with CT (Stiff Wireline) Planning a CT Logging Job • Job Plan Inputs • Logistical Constraints • Installing Electric Cable Inside CT • Computer Simulator Modeling • Selecting Equipment for CT Logging • CT Equipment • Pressure Control Equipment • Downhole Tools • Pumping Equipment • Cable Injector
1230 – 1245	Break
1245 – 1420	Logging with CT (Stiff Wireline) (cont'd) Monitoring and Recording Equipment • Generic Procedure for CT Logging • Preparing the Wellbore • Preparing the Equipment • Correlating Depth • Performing the Logging Operation • Monitoring a CT Logging Job • Safety issues for CT Logging
1420 – 1430	Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow
1430	Lunch & End of Day Four

Day 5

Jay J	
	Stuck Pipe & Removing Scale Mechanically
	Planning to Remove Scale Mechanically • Job Plan Inputs • General
	Considerations • Scale/Deposit Characteristics • Hole Cleaning • Logistical
	Constraints • Drilling/Milling/Underreaming with a Downhole Motor •
	Impact Drilling • Bit Selection • Circulating Fluid • Scale Inhibition •
0720 0020	<i>Computer Simulator Modeling</i> • <i>Job Plan Outputs</i> • <i>Selecting Equipment for</i>
0730 - 0930	Removing Scale Mechanically • CT Equipment • Pressure Control
	Equipment • Downhole Tools • Pumping Equipment • Auxiliary Equipment
	• Monitoring and Recording Equipment • Generic Procedure for Removing
	Scale Mechanically • Preparing the Wellbore • Preparing the Equipment •
	Preparing Fluids • Removing the Scale • Monitoring a Mechanical Scale
	Removal Job • Safety Issues for Removing Scale Mechanically
0930 - 0945	Break
	Cutting Tubulars Mechanically
	Planning to Cut Tubulars Mechanically • Job Plan Inputs • Depth Control •
	Milling with a Downhole Motor • Explosive Cutters • Computer Simulator
	Modeling • Job Plan Outputs • Milling with a Downhole Motor • Selecting
0045 1100	Equipment for Mechanically Cutting Tubulars • CT Equipment • Pressure
0945 – 1100	Control Equipment • Pumping Equipment • Downhole Tools • Monitoring
	and Recording Equipment • Generic Procedure for Mechanically Cutting
	Tubulars • Preparing the Wellbore • Preparing the Equipment • Making the
	Cut • Monitoring for Mechanically Cutting Tubulars • Safety Issues for
	Mechanically Cutting Tubulars



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	Operating a Sliding Sleeve
	Planning to Operate a Sliding Sleeve • Job Plan Inputs • Planning
	Considerations • Computer Simulator Modeling • Selecting Equipment for
	<i>Operating a Sliding Sleeve</i> • <i>CT Equipment</i> • <i>Pressure Control Equipment</i> •
1100 – 1230	Downhole Tools • Pumping Equipment • Monitoring and Recording
	Equipment • Generic Procedure for Operating a Sliding Sleeve • Preparing
	the Wellbore • Preparing the Equipment • Operating the Sleeve •
	Monitoring for a sliding Sleeve Operation • Safety Issues for Operating a
	Sliding Sleeve
1230 - 1245	Break
	Running a Completion with CT
	Planning to Run a Completion • Job Plan Inputs • Planning Considerations
	Computer simulator Modeling Job Plant Outputs Selecting Equipment
1245 - 1345	for Running a Completion • CT Equipment • Pressure Control Equipement
1245 - 1545	Downhole Tools Pumping Equipment Monitoring and Recording
	Equipment • Generic Procedure for Running a Completion • Preparing the
	Wellbore • Preparing the Equipment • Running the Completion •
	Monitoring Running a Completion • Safety Issues for Running a Completion
	Course Conclusion
1345 – 1400	Using this Course Overview, the Instructor(s) will Brief Participants about the
	Course Topics that were Covered During the Course
1400 - 1415	POST-TEST
1415 - 1430	Presentation of Course Certificates
1430	Lunch & End of Course

Practical Sessions

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



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