COURSE OVERVIEW DE0485
Well Integrity, Well Services & Well Workover

Course Title
Well Integrity, Well Services & Well Workover

Course Date/Venue
August 25-29, 2024/Oryx Meeting Room, Doubletree by Hilton Doha-Al Sadd, Doha, Qatar

Course Reference
DE0485

Course Duration/Credits
Five days/3.0 CEUs/30 PDHs

Course Description

This practical and highly-interactive course includes real-life case studies 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, Well Services and Well Workover. It covers the importance of well integrity in pipeline operations; the fundamentals and key components of well integrity; the key standards and guidelines for (API and ISO) including the well integrity management systems (WIMS); the types, functions and importance of well barriers; the well integrity monitoring and assessment; the well services and their significance including well servicing equipment and tools; the wireline and slickline operations and coiled tubing services; and the hydraulic fracturing, well stimulation techniques, well service safety practices and risk assessment and mitigation.

Further, the course will also discuss the different types of workover rigs and the criteria for selecting the appropriate rig; the workover operations planning, well killing procedures, fishing operations and well re-completion techniques; the advanced well integrity monitoring; the common well integrity issues; the proper troubleshooting and problem-solving techniques; the causes of corrosion and erosion; ensuring integrity of casing and tubing; and the techniques for detecting leaks and methods for controlling and mitigating leaks.

During this interactive course, participants will learn the well services for optimal performance; coordinating and planning well services for integrated services; the workover and well intervention technologies; the cost optimization in well services and workover; the compliance with environmental regulations and implementing sustainable practices in well services and workover; preparing emergencies in well operations; and developing and implementing contingency plans.

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, well services and well workover
- Discuss the importance of well integrity in pipeline operations and the fundamentals and key components of well integrity
- Explain the key standards and guidelines for (API and ISO) including the well integrity management systems (WIMS)
- Recognize the types, functions and importance of well barriers and apply well integrity monitoring and assessment
- Discuss well services and their significance including well servicing equipment and tools
- Apply wireline and slickline operations, coiled tubing services, hydraulic fracturing, well stimulation techniques, well service safety practices and risk assessment and mitigation
- Discuss well workover and identify the different types of workover rigs and the criteria for selecting the appropriate rig
- Implement workover operations planning, well killing procedures, fishing operations and well re-completion techniques
- Carryout advanced well integrity monitoring, identify the common well integrity issues and apply proper troubleshooting and problem-solving techniques
- Identify the causes of corrosion and erosion as well as ensure integrity of casing and tubing
- Employ techniques for detecting leaks and methods for controlling and mitigating leaks
- Combine well services for optimal performance and coordinate and plan well services for integrated services
- Explain workover and well intervention technologies and apply cost optimization in well services and workover
- Ensure compliance with environmental regulations and implement sustainable practices in well services and workover
- Prepare for emergencies in well operations as well as develop and implement contingency plans

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 well integrity, well services and well workover for well service engineers, drilling contractors, drilling operations senior engineers, section leaders, drilling engineering supervisors, well engineers and other technical staff.

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® (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: -

- 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.

- 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.

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. Konstantin Zorbalas, MSc, BSc, is a **Senior Petroleum Engineer & Well Completions Specialist** with over **25 years** of **offshore** and **onshore** experience in the **Oil** & **Gas**, **Refinery** & **Petrochemical** industries. His wide expertise includes **Workovers & Completions**, **Petroleum Risk & Decision Analysis**, Electrical Submersible Pumps Application, **ESP** Assembly & Disassembly Techniques, **ESP** Modeling & Design, **ESP** Construction & Operational Monitoring, **ESP** Troubleshooting & Maintenance, **Acidizing Application** in **Sandstone** & **Carbonate**, **Well Testing Analysis**, **Stimulation Operations**, **Reserves Evaluation**, **Reservoir Fluid Properties**, **Reservoir Engineering & Simulation Studies**, **Reservoir Monitoring**, **Artificial Lift Design**, **Gas Operations**, **Workover/Remedial Operations** & **Heavy Oil Technology**, **Applied Water Technology**, **Oil & Gas Production**, **X-mas Tree** & **Wellhead Operations** & **Testing**, **Artificial Lift Systems** (**Gas Lift**, **ESP**, and **Rod Pumping**), **Well Cementing**, **Production Optimization**, **Well Completion Design**, **Sand Control**, **PLT Correlation**, **Slickline Operations**, **Acid Stimulation**, **Well testing**, **Production Logging**, **Project Evaluation** & **Economic Analysis**. Further, he is actively involved in **Project Management** with special emphasis in production technology and field optimization, performing conceptual studies, economic analysis with risk assessment and field development planning. He is currently the **Senior Petroleum Engineer & Consultant** of **National Oil Company** wherein he is involved in the mega-mature fields in the Arabian Gulf, predominantly carbonate reservoirs; designing the acid stimulation treatments with post-drilling rigless operations; utilizing CT with tractors and DTS systems; and he is responsible for gas production and preparing for reservoir engineering and simulation studies, well testing activities, field and reservoir monitoring, production logging and optimization and well completion design.

During his career life, Mr. Zorbalas worked as a **Senior Production Engineer**, **Well Completion Specialist**, **Production Manager**, **Project Manager**, **Technical Manager**, **Technical Supervisor** & **Contracts Manager**, **Production Engineer**, **Production Supervisor**, **Production Technologist**, **Technical Specialist**, **Business Development Analyst**, **Field Production Engineer** and **Field Engineer**. He worked for many **world-class oil/gas companies** such as **ZADCO**, **ADMA-OPCO**, **Oilfield International Ltd**, **Burlington Resources** (later acquired by **Conoco Phillips**), **MOBIL E&P**, **Saudi Aramco**, **Pluspetrol E&P SA**, **Wintershall**, **Taylor Energy**, **Schlumberger**, **Rowan Drilling** and **Yukos EP** where he was in-charge of the **design and technical analysis** of a gas plant with capacity **1.8 billion m3/yr gas**. His achievements include **boosting oil production 17.2% per year** since 1999 using **ESP** and **Gas Lift systems**.

Mr. Zorbalas has **Master** and **Bachelor** degrees in **Petroleum Engineering** from the **Mississippi State University**, **USA**. Further, he is an **SPE Certified Petroleum Engineer**, **Certified Instructor/Trainer**, a **Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership & Management** (**ILM**), an active member of the Society of Petroleum Engineers (**SPE**) and has numerous scientific and technical publications and delivered innumerable training courses, seminars and workshops worldwide.

Course Program

The following program is planned for this course. However, the course instructor(s) may modify this program before or during the workshop for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

Day 1: ***Sunday, 25th of August 2024***

0730 – 0800	*Registration & Coffee*
0800 – 0815	*Welcome & Introduction*
0815 – 0830	***PRE-TEST***
0830 – 0930	***Introduction to Well Integrity*** *Overview of Course Objectives & Agenda • Importance of Well Integrity in Pipeline Operations*
0930 – 0945	*Break*
0945 – 1030	***Fundamentals of Well Integrity*** *Definition & Principles • Key Components of Well Integrity*
1030 – 1130	***Regulations & Standards*** *Overview of International & Local Regulations • Key Standards & Guidelines (API, ISO)*
1130 – 1215	***Well Integrity Management Systems*** *Introduction to Well Integrity Management Systems (WIMS) • Components of a Robust WIMS*
1215 – 1230	*Break*
1230 – 1330	***Well Barrier Elements*** *Types of Well Barriers (Primary & Secondary) • Functions & Importance of Well Barriers*
1330 – 1420	***Well Integrity Monitoring & Assessment*** *Techniques for Monitoring Well Integrity • Regular Assessment Procedures & Tools*
1420 – 1430	***Recap***
1430	*Lunch & End of Day One*

Day 2: ***Monday, 26th of August 2024***

0730 – 0830	***Well Services*** *Overview of Well Services & their Significance • Types of Well Services (Maintenance, Enhancement)*
0830 – 0930	***Well Servicing Equipment & Tools*** *Common Equipment Used in Well Services • Proper Usage & Maintenance of Tools*
0930 – 0945	*Break*
0945 – 1100	***Wireline & Slickline Operations*** *Differences Between Wireline & Slickline • Applications & Procedures for Each*
1100 – 1215	***Coiled Tubing Services*** *Introduction to Coiled Tubing • Advantages & Applications*
1215 – 1230	*Break*
1230 – 1330	***Hydraulic Fracturing & Stimulation*** *Fundamentals of Hydraulic Fracturing • Techniques for Well Stimulation*
1330 – 1420	***Well Service Safety Practices*** *Safety Protocols in Well Services • Risk Assessment & Mitigation*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Two*

Day 3: Tuesday, 27th of August 2024

0730 – 0830	***Well Workover*** *Definition & Purpose of Well Workover • When & why to Perform a Workover*
0830 – 0930	***Workover Rig Types & Selection*** *Different Types of Workover Rigs • Criteria for Selecting the Appropriate Rig*
0930 – 0945	*Break*
0945 – 1100	***Workover Operations Planning*** *Steps in Planning a Workover Operation • Key Considerations & Challenges*
1100 – 1215	***Well Killing Procedures*** *Techniques for Well Killing • Safety Measures During Well Killing*
1215 – 1230	*Break*
1230 – 1330	***Fishing Operations*** *Common Fishing Tools & Techniques • Strategies for Successful Fishing Operations*
1330 – 1420	***Well Re-Completion Techniques*** *Methods for Well Re-Completion • Benefits & Potential Challenges*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Three*

Day 4: Wednesday, 28th of August 2024

0730 – 0830	***Advanced Well Integrity Monitoring*** *Latest Technologies in Well Integrity Monitoring • Data Analysis & Interpretation*
0830 – 0930	***Integrity Issues & Problem Solving*** *Common Well Integrity Issues • Troubleshooting & Problem-Solving Techniques*
0930 – 0945	*Break*
0945 – 1100	***Corrosion & Erosion Management*** *Causes of Corrosion & Erosion • Prevention & Control Strategies*
1100 – 1215	***Casing & Tubing Integrity*** *Ensuring Integrity of Casing & Tubing • Inspection & Maintenance Practices*
1215 – 1230	*Break*
1230 – 1330	***Leak Detection & Control*** *Techniques for Detecting Leaks • Methods for Controlling & Mitigating Leaks*
1330 – 1420	***Case Studies & Best Practices*** *Review of Real-World Case Studies • Discussion of Best Practices in Well Integrity*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Four*

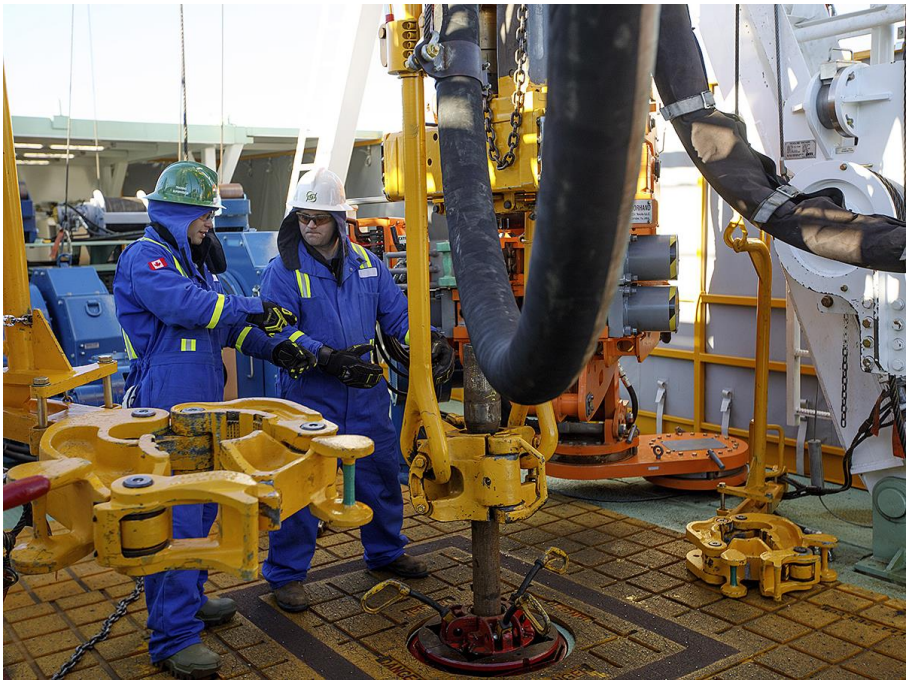
Day 5: Thursday, 29th of August 2024

0730 – 0830	***Integrated Well Services Strategies*** *Combining Well Services for Optimal Performance • Coordination & Planning for Integrated Services*
0830 – 0930	***Workover & Well Intervention Technologies*** *Latest Technologies in Workover & Intervention • Application & Benefits*
0930 – 0945	*Break*
0945 – 1100	***Cost Optimization in Well Services & Workover*** *Strategies for Cost-Effective Operations • Balancing Cost with Safety & Efficiency*
1100 – 1230	***Environmental & Regulatory Compliance*** *Ensuring Compliance with Environmental Regulations • Sustainable Practices in Well Services & Workover*

1230 – 1245	*Break*
1245 – 1345	***Emergency Response & Contingency Planning*** *Preparing for Emergencies in Well Operations • Developing & Implementing Contingency Plans*
1345 – 1400	***Course Conclusion***
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:-



Course Coordinator

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