COURSE OVERVIEW HE1393

Regulation, Risk Management and Qualitative Risk Assessment

Course Title

Regulation, Risk Management and Qualitative Risk Assessment

Course Date/Venue

June 23-27, 2025/Fujairah Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE

Course Reference

HE1393

Course Duration/Credits

Five days/2.75 CEUs/27.5 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 is designed to provide participants with a detailed and up-to-date overview of Qualitative Risk Assessment (QRA) in Oil and Gas Industry. It covers the risk assessment; assembling a risk assessment spreadsheet through identifying hazards; the identification of risks and consequences; rating the risks before control measures; establishing control measures; rating the risks after control measures; and the qualitative risk assessment techniques applied to offshore drilling process.

During this interactive course, participants will learn the PHA, What-if, FMEA, LOPA, SIL, FTA and major accident hazards; the risk-based inspection; utilizing databases to apply QRA; the well master RMS, offshore reliability data, worldwide offshore accident database and process equipment reliability database; the HSE PCAG, failure frequency guidance process equipment leaks frequency data and lees loss prevention in the process industries; the OGP risk assessment directory, OIR/12 and IRPA; and implementing actions for gaps.

Course Objectives

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

- Apply and gain an in-depth knowledge on qualitative risk assessment (QRA) in oil and gas industry
- Carryout risk assessment and assemble a risk assessment spreadsheet through identifying hazards
- Identify risks and consequences as well as rate the risks before control measures
- Establish control measures and rate the risks after control measures
- Apply qualitative risk assessment techniques to offshore drilling process
- Discuss PHA, What-if, FMEA, LOPA, SIL, FTA and major accident hazards
- Employ risk-based inspection and utilize databases to apply QRA
- Recognize well master RMS, offshore reliability data, worldwide offshore accident database and process equipment reliability database
- Interpret HSE PCAG, failure frequency guidance process equipment leaks frequency data and lees loss prevention in the process industries
- Identify OGP risk assessment directory, OIR/12 and IRPA as well as implement actions for gaps

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 qualitative risk assessment (QRA) in oil and gas industry for all employees who perform risk assessments for offshore drilling activities using any type of technique, and are required to supervise workers to provide them awareness of hazards and risks and to check with them if all control measures required are implemented and functioning, e.g. HSE drilling personnel, tool pushers, drilling and completion engineers, drilling managers, drilling superintendents, directional drillers, subsea engineers and team leaders/foremen, maintenance supervisors and technicians.

Course Fee

US$ 5, 500 per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Course Certificate(s)

(1) Internationally recognized Competency Certificates and Plastic Wallet Cards will be issued to participants who completed a minimum of 80% of the total tuition hours and successfully passed the exam at the end of the course. Certificates are valid for 5 years.

Recertification is FOC for a Lifetime.

Sample of Certificates

The following are samples of the certificates that will be awarded to course participants:-

(2) Official Transcript of Records will be provided to the successful delegates with the equivalent number of ANSI/IACET accredited Continuing Education Units (CEUs) earned during the course.

Haward Technology Middle East

Continuing Professional Development (HTME-CPD)

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CEU Official Transcript of Records

TOR Issuance Date: 20-Sep-18

HTME No. PAR104156

Participant Name: Farid Al Naqbi

Program Ref.	Program Title	Program Date	No. of Contact Hours	CEU's
HE1393-3D-IH	Qualitative Risk Assessment (QRA)	September 18-20, 2018	19.5	1.95

Total No. of CEU's Earned as of TOR Issuance Date **1.95**

TRUE COPY

Maricel De Guzman
Academic Director

Haward Technology has been approved as an Authorized Provider by the International Association for Continuing Education and Training (IACET), 1760 Old Meadow Road, Suite 500, McLean, VA 22102, USA. In obtaining this approval, Haward Technology has demonstrated that it complies with the ANSI/IACET 1-2013 Standard which is widely recognized as the standard of good practice internationally. As a result of their Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for programs that qualify under the ANSI/IACET 1-2013 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 Association 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 is accredited by

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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 **2.75 CEUs** (Continuing Education Units) or **27.5 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.

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. Peter Christian is an **International Expert** in **Safety**, **Health**, **Environmental** and **Quality** with over **35 years** of practical and industrial experience in **NEBOSH** International General Certificate in Occupational Health & **Safety**, **Lifting & Rigging Equipment HAZOP**, **HAZWOPER**, **HAZMAT**, **HAZCOM**, **PHA** (**Process Hazard Analysis**), **FMEA**, **HAZID**, **ISO 14001**, **OHSAS 18001**, **ISO 9001**, Process Safety Management (**PSM**), Safety, Health, Environmental & Quality Management (**SHEQ**), **Behavioral Safety Management**, **Industrial Hygiene**, **Human Factors Engineering**, **Risk Assessment**, Fire Fighting, Rope Rescue Operations, Emergency Response within process industries. He is currently the **President** of **NKWE** and spearheads the companies' major projects and business ventures, where he specializes in the areas of **SHEQ** solutions, **ISO**, **Quality Control** and **OSHA systems**. Previously, he has had much on–hand experience in the initiation and management of projects (technical as well organizational development) including involvement in **design of process plants**; **the commissioning & decommissioning** of process plants; the **operational and financial responsibility** for large process operations; **risk management**; **operational and maintenance management**, **crisis and emergency management**, **accident investigation**, **risk assessment**, **hazard identification** and **emergency preparedness & response** (oil spillage and gas explosions).

Much earlier in his career, Mr. Christian was a **HAZOP Team Leader** for numerous **HAZOP** studies and he has further managed the **Health, Safety & Environmental** and **Quality** requirements of a large process company. This included responsibilities as an auditor for compliance against **SHEQ standards**, **ISO standards** and the **Fatal Risk Control Protocols**. He then facilitated the development and implementation of the above standards as a group and at site level as part of the SHEQ council. Moreover, he established, trained and led a Rope rescue team and a high level emergency care clinic and ambulance service for many years. He still abseils recreationally and leads adventure groups during abseiling activities and serves as a rescue team member for mountain and water emergencies.

During his career life, Mr. Christian has gained his practical and field experience through his various significant positions as the **Plant Manager**, **Project Metallurgist**, **Metallurgist**, **HSE Team Leader**, **SHEC Superintendent**, **Mentor**, Instructor/Trainer, Acting **Technical Manager**, **Process Plant Superintendent**, Acting **Project Leader**, Acting **Plant Superintendent**, Appointed **Health & Safety & Environmental Superintendent**, Production Technician, Acting **Senior Shiftsman**, Foreman and Learner – Official Extraction Metallurgy from various companies such as the NKWE Consulting, SAMANCOR, Middleburg Mine Services (Pty) Ltd., Koomfontein Mines, Emelo Mine Services, Gencor Group and South African Defence Force.

Mr. Christian has a **Postgraduate Studies** in **Advanced Executive Programme** and a **National Higher Diploma** (**NHD**) & a **National Diploma** in **Extraction Metallurgy**. He is also a **Certified/Registered Tutor** in **NEBOSH International General Certificate**, **Certified Auditor** in **OHSAS 18001**, **ISO 14001** & **ISO 9001**, a **Certified Instructor/Trainer**, a **Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership & Management** (**ILM**), a **Six Sigma Black Belt Coach** and holds a Certificate in Facilitate Learning Using a Variety of Given Methodologies **NQF Level 5** (**EDTP-SETA**) as a **Certified Facilitator**. He has further delivered innumerable courses, trainings, workshops and conferences globally.

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: Monday, 23rd of June 2025

0800 - 0830	*Registration & Coffee*
0830 - 0845	*Welcome & Introduction*
0845 - 0900	***PRE-TEST***
0900 - 1000	***Risk Assessment***
1000 – 1030	***Assembling a Risk Assessment Spreadsheet through Identifying Hazards***
1030 – 1045	*Break*
1045 – 1130	***Risks & Consequences***
1130 – 1200	***Rating the Risks before Control Measures***
1200 – 1300	*Lunch*
1300 – 1400	***Establishing Control Measures***
1400 – 1415	*Break*
1415 - 1450	***Rating the Risks after Control Measures***
1450 - 1500	***Recap***
1500	*End of Day One*

Day 2: Tuesday, 24th of June 2025

0800 – 0930	***Case Study – An Offshore Drilling Activity JSA – Job Safety Analysis***
0930 – 1030	***Qualitative Risk Assessment Techniques Applied to Offshore Drilling Process***
1030 – 1045	*Break*
1045 - 1200	***PHA-Process Hazard Analysis***
1200 - 1300	*Lunch*
1300 – 1330	***What-If***
1330 - 1430	***FMEA***
1430 – 1445	*Break*
1445 - 1450	***LOPA***
1450 - 1500	***Recap***
1500	*End of Day Two*

Day 3: Wednesday, 25th of June 2025

0800 – 0930	***SIL & FTA (Quantitative)***
0930 – 1030	***Case Study***
1030 – 1045	*Break*
1045 - 1200	***MAH – Major Accident Hazards***
1200 - 1300	*Lunch*
1300 – 1330	***Case Study Deep Water Horizon Disaster***
1330 - 1430	***Risk Based Inspection***
1430 – 1445	*Break*
1445 - 1450	***Utilizing Databases to Apply to QRA***
1450 - 1500	***Recap***
1500	*End of Day Three*

Day 4: Thursday, 26th of June 2025

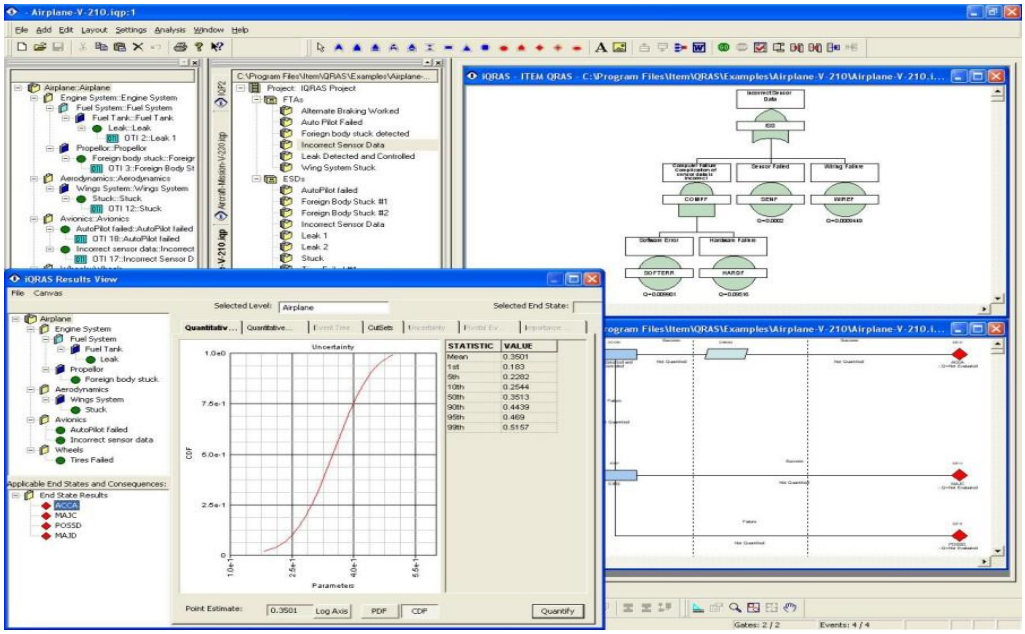
0800 – 0930	***Wellmaster RMS***
0930 – 1030	***Offshore Reliability Data***
1030 – 1045	*Break*
1045 - 1200	***Worldwide Offshore Accident Database***
1200 - 1300	*Lunch*
1300 – 1430	***Process Equipment Reliability Database***
1430 – 1445	*Break*
1445 - 1450	***HSE PCAG***
1450 - 1500	***Recap***
1500	*End of Day Four*

Day 5: Friday, 27th of June 2025

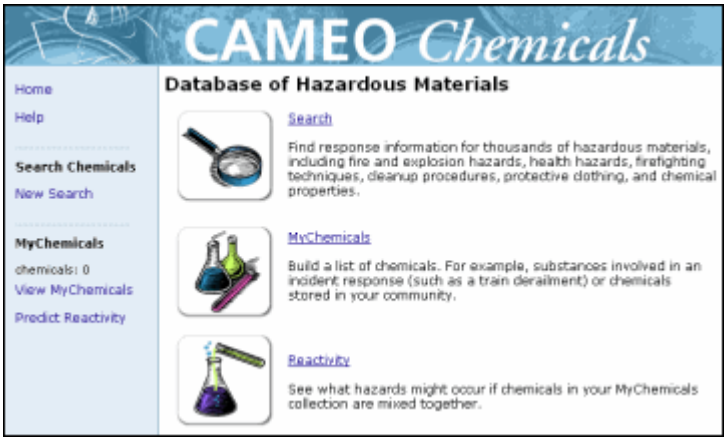
0800 - 0900	***Failure Frequency Guidance Process Equipment Leak Frequency Data & Lees` Loss Prevention in the Process Industries***
0900 – 0930	***OGP Risk Assessment Directory***
0930 – 0945	*Break*
0945 – 1130	***OIR/12***
1130 - 1230	*Lunch*
1230 – 1245	***IRPA***
1245 - 1300	*Break*
1300 - 1330	***Implementing Actions for Gaps***
1330 – 1345	***Course Conclusion***
1345 - 1445	***COMPETENCY EXAM***
1445 – 1500	*Presentation of Course Certificates*
1500	*End of the Course*

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 our state-of-the-art simulators "QRA System Software" and "CAMEO Chemicals Suite Software".



QRA System Software



CAMEO Chemicals Suite Software

Course Coordinator

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