COURSE OVERVIEW HE0140
Certified Risk Assessment within Production Operations

Course Title
Certified Risk Assessment within Production Operations

Course Reference
HE0140

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

Course Date/Venue
December 15 -19, 2024/ Club B Meeting Room, Ramada Plaza by Wyndham Istanbul City Center, Istanbul, Turkey

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 geared to those whose responsibilities include risk assessments, development of management systems, and providing advice to decision makers. The main objective of this course is to teach a thorough understanding of risk assessment principles and techniques as applicable to production operations.

During the course, participants are provided with a broad overview of the technical tools available to assess risk within production operations as well as how these tools fit in the bigger picture of the broader risk management systems to control risk.

The course will provide delegates with enough information in order to assess plant risks at all stages in a project and to implement safe working practices and procedures relating to process plant and equipment. Participants will learn how to recognize the difference between hazard, risk and risk assessment. They will learn how to evaluate different types of risks and how to apply advanced risk assessment techniques in their plants. The course will encourage delegates to develop their own strategy for planning and implementing a proper risk reduction procedures.

Course Objectives

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

- Get certified as a *"Certified Risk Assessor"*
- Apply and gain an in-depth knowledge in risk assessment within production operations
- Identify the difference between hazard, risk and risk assessment
- Evaluate the various types of risk and apply advanced risk assessment techniques
- Implement a good strategy for planning risk reduction
- Employ the variety of communication styles to efficiently cope with different situations
- Plan and conduct successful appraisal interviews with the team
- Create a plan of action to implement in the organization

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 risk assessment within production operations for all personnel who are involved in carrying out and implementing actions resulting from risk assessments. The program is based on multi-disciplinary approach, which includes all personnel from senior management to technicians and operators from the process, mechanical, control, maintenance & production departments. This course is a must for all engineers, supervisors, foremen and other technical staff within production, operation and HSE departments.

Course Fee

US$ 6,000 per Delegate + **VAT**. This rate includes Participants Pack (Folder, Manual, Hand-outs, etc.), buffet lunch, coffee/tea on arrival, morning & afternoon of each day

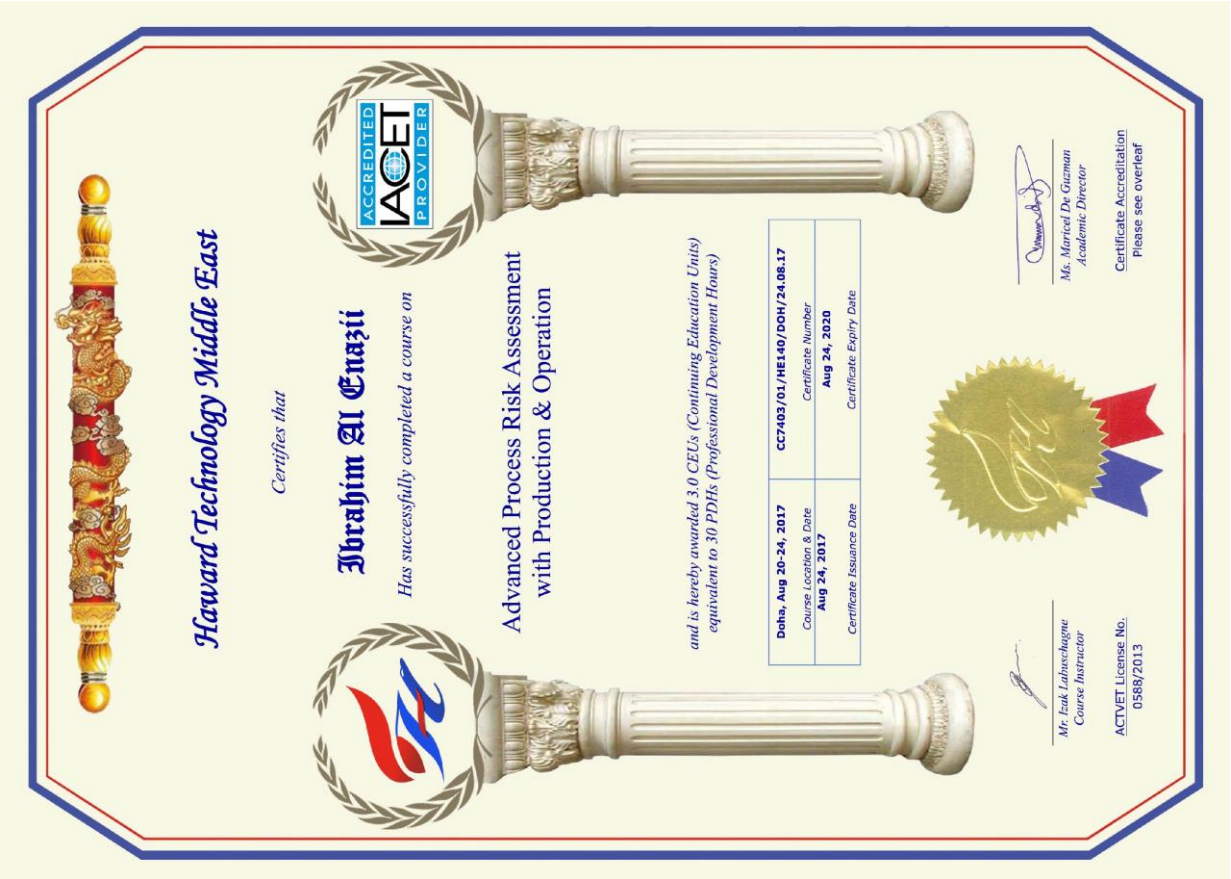
Course Certificate(s)

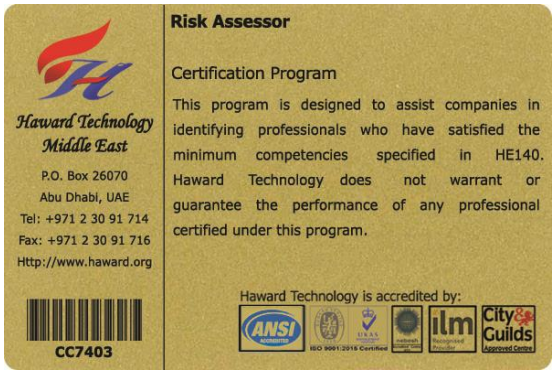
(1) Internationally recognized Competency Certificates and Plastic Wallet Cards will be issued to participants who completed a minimum of 80% of the total tuition hours and successfully passed the exam at the end of the course. Successful candidate will be certified as a "*Certified Risk Assessor*". 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 * CEUs * Haward Technology * CEUs * Haward Technology * CEUs * Haward Technology *

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Haward Technology Middle East

Continuing Professional Development (HTME-CPD)

CEU Official Transcript of Records

TOR Issuance Date: 24-Aug-17

HTME No. PAR11317

Participant Name: Ebrahim Al Enazi

Program Ref.	Program Title	Program Date	No. of Contact Hours	CEU's
HE140	**Advanced Process Risk Assessment with Production & Operation**	August 20-24, 2017	30	3.0

Total No. of CEU's Earned as of TOR Issuance Date **3.0**

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 0organizations: -

- 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. Raymond Tegman is a **Senior HSE and Management Consultant** with extensive experience within the **Oil & Gas**, **Petrochemical** and **Refinery** industries. His broad expertise widely covers in the areas of **Rigging** Safety Rules, Machinery & Hydraulic **Lifting Equipment**, Handling **Hazardous Chemicals**, Spill Containment, **Fire** Protection, **Fire** Precautions, **Incidents & Accidents** Reporting, **HSEQ** Audits & Inspection, **HSEQ** Procedures, **Environmental** Awareness, **Waste** Management Monitoring, **Emergency Planning**, **Emergency** Management, **Working at Heights**, **Root Cause Analysis**, **HSE** Rules & Regulations, Process Safety Management (**PSM**), Process Hazard Analysis (**PHA**), Techniques, **HAZOP**, **HSE** Risk, **Pre-Start-up Safety** Reviews, **HSE Risk** Identification, Assessments & Audit, **HSE Risk** Assessment & Management Concepts, **HSE Management** Policy & Standards, **Managing Performance** for **Improvement, Performance Monitoring, Employee Relations for First-Line Supervisors, HSSE Emergency Response & Crisis Management** Operations, **Confined Space Entry**, **Quantitative Risk Assessment** (**QRA**), Hazardous Materials & Chemicals Handling, Safety Precaution & Response Action Plan, **Hazard & Risk** Assessment, Task Risk Assessment (**TRA**), **Incident Command**, **Accident & Incident Investigation**, **Emergency Response Procedures**, Job Safety Analysis (**JSA**), Behavioural Based Safety (**BBS**), **Fall Protection**, **Work Permit & First Aid**, Lock-out/Tag-out (**LOTO**), **Emergency Response**, **Construction** Supervision, **Scaffolding** Inspection, **HAZCHEM**, Manual Material Handling, **Road Traffic** Supervision, ISO 9001 and OHSAS 18001.

During his career life, Mr. Tegman has gained his practical and field experience through his various significant positions and dedication as the **Operations Manager**, **Safety & Maintenance Manager**, **Safety Manager**, **Road/Traffic Supervisor**, **Assessor/Moderator**, **Safety Consultant**, **Safety Advisor**, **Safety Officer** and **Liaison Officer** from Zero Harm, SHRA Training & Services (Health & Safety), Road Crete, Balwin Property Development, DEME International, Gladstone Australia, Godavari Gas Pipeline and New Castle NCIG.

Accommodation

Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.

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: ***Sunday 15th of December 2024***

0730 - 0800	*Registration, Coffee*
0800 - 0815	*Welcome & Introduction*
0815 - 0830	***PRE-TEST***
0830 – 0930	***The Concept of Hazards, Risk, & Risk Assessment***
0930 - 0945	*Break*
0945 – 1100	***Workshop: Risk Assessment (Groups)***
1100 – 1230	***Group Presentation of their Work (Risk Assessment)***
1230 – 1245	*Break*
1245 – 1345	***Video: Piper Alpha Disaster***
1345 – 1420	***Human Contribution to Accidents – Piper Alpha Disaster***
1420 – 1430	***Recap***
1430	*Lunch & End of Day One*

Day 2: ***Monday 16th of December 2024***

0730 - 0800	***Introduction to Hazards Identification & Analysis Techniques***
0800 – 0830	***Exercise: Hazard Identification***
0930 - 0945	*Break*
0945 – 1100	***Video: HAZOP***
1100 – 1230	***Techniques for Hazard Identification & Analysis – HAZOP***
1230 – 1245	*Break*
1245 – 1420	***Workshop: HAZOP study (Groups)***
1420 - 1430	***Recap***
1430	*Lunch & End of Day Two*

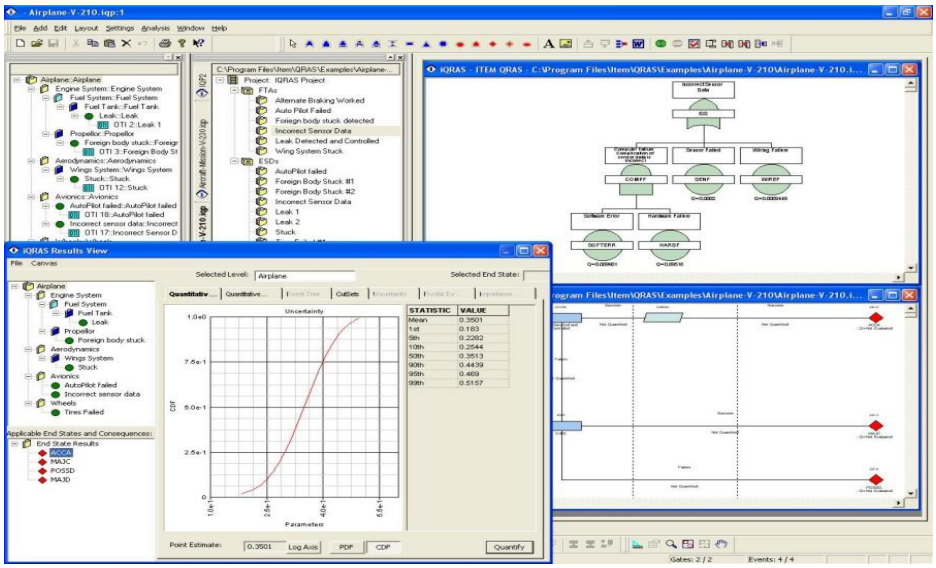
Day 3:	Tuesday 17th of December 2024
0730 - 0830	**Group Presentation of their Work (HAZOP)**
0830 - 0930	**Failure Mode & Effects Analysis (FMEA)**
0930 - 0945	Break
0945 – 1100	**Workshop: FMEA (Groups)**
1100 – 1230	**Group Presentation of their Work (FMEA)**
1230 – 1245	Break
1245 - 1345	**Analysis of Consequences – Mechanics of Fire, Explosion & Toxic Releases**
1345 –1420	**Exercise: Consequence Analysis**
1420 -1430	**Recap**
1430	Lunch & End of Day Three

Day 4:	Wednesday 18th of December 2024
0730 - 0830	**Video: Human Factor**
0830 - 0930	**Human Factor and Risk Assessment**
0930 - 0945	Break
0945 – 1100	**Hierarchical Task Analysis "HTA"**
1100 – 1230	**Workshop: HTA (Groups)**
1230 – 1245	Break
1245 – 1420	**Group Presentation of their Work (HTA)**
1420 -1430	**Recap**
1430	Lunch & End of Day Four

Day 5:	Thursday 19th of December 2024
0730 – 0830	**Task–Based HAZOP Application to Critical Activities**
0830– 0930	**Workshop: Task-Based HAZOP (Groups)**
0930 - 0945	Break
0945– 1100	**Group Presentation of their Work (Task-Based HAZOP)**
1100 – 1200	**The Role of Quantified Risk Assessment "QRA"**
1200 – 1215	Break
1215 – 1245	**Case Study: Risk Assessment Implementation in Production Facility**
1245 – 1300	**Overview LOPA**
1300 – 1315	**Course Conclusion**
1315– 1415	**COMPETENCY EXAM**
1415 - 1430	Presentation of Course Certificates
1430	Lunch & End of 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".



QRA System Software

Course Coordinator

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