

COURSE OVERVIEW HE1822

<u>Professional Process Safety Inspector (PPSI)</u> <u>Module 3: Human Factors & Cultural Aspects</u>

Course Title

Professional Process Safety Inspector (PPSI): Module 3: Human Factors & Cultural Aspects

Course Date/Venue

December 16-20, 2024/Fujairah Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE

Course Reference

HE1822

Course Duration/Credits

Five days/3.0 CEUs/30 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 certification program is designed to train delegates on Process Safety Inspection and certify them as Professional Process Safety Inspectors. The program comprises of 4 modules that shall be taken in order:-



Module 1: Fundamentals of Process Safety

Module 2: Process Safety Management (PSM) & Regulatory Framework

Module 3: Human Factors & Cultural Aspects

Module 4: Process Safety Auditing & Site Inspection



Module 3 of this program is designed to provide participants with a detailed and up-to-date overview of Human Factors & Cultural Aspects. It covers the human factors and ergonomics in process safety including the cognitive and physical human limitations; the human error and systems design, work environment and safety culture and task analysis; the significance of organizational culture, dimensions of safety culture and behavioral-based safety; and the leadership's role in fostering safety culture and safety culture assessment tools.















During this interactive course, participants will learn the importance of training in process safety and developing the effective training programs; the competency assessment and management; the training methodologies and tools including refresher training and its significance; the human reliability analysis (HRA) techniques and the use of HRA in conjunction with other tools; predicting and reducing human error; the feedback and iteration in HRA; the role of communication in safety and tools for effective safety communication; collaborating between departments and teams; handling near-misses and feedback loops; and using technology in safety communication.

Course Objectives

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

- Complete Module 3 of the "Professional Process Safety Inspector" program is your successful road for this prestigious professional certification
- Discuss the human factors and ergonomics in process safety including the cognitive and physical human limitations
- Apply human error and systems design, work environment and safety culture and task analysis
- Explain the significance of organizational culture, dimensions of safety culture and behavioral-based safety
- Recognize the leadership's role in fostering safety culture and safety culture assessment tools
- Discuss the importance of training in process safety, develop effective training programs and apply competency assessment and management
- Identify training methodologies and tools including refresher training and its significance
- Carryout human reliability analysis (HRA) techniques and use HRA in conjunction with other tools
- Predict and reduce human error and identify the feedback and iteration in HRA
- Recognize the role of communication in safety and tools for effective safety communication
- Collaborate between departments and teams, handle near-misses and feedback loops and use technology in safety communication

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, sample video clips of the instructor's actual lectures & practical sessions during the course conveniently saved in a Tablet PC.



















Who Should Attend

This course provides an overview of all significant aspects and considerations of human factors and cultural aspects for site inspectors, safety engineers, supervisors, newly appointed managers, junior managers, safety representatives and newly qualified health and safety advisors within the process industries.

Course Prerequisite

This course has the following minimum prerequisites:-

- Certificate or proof of attendance/completion of the following Haward's courses:-
 - ❖ HE1820: Professional Process Safety Inspector (PPSI): Module 1: Fundamentals of Process Safety
 - ❖ HE1821: Professional Process Safety Inspector (PPSI): Module 2: Process Safety Management (PSM) & Regulatory Framework

Training Methodology

All our Courses are including Hands-on Practical Sessions using equipment, Stateof-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\$ 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.

Accommodation

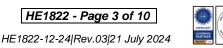
Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.



















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:-

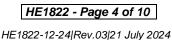




















(2) Official Transcript of Records will be provided to the successful delegates with the equivalent number of ANSI/IACET accredited Continuing Education Units (CEUs) earned during the course.























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.



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-Startup 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.

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, 16th of December 2024

0730 - 0800	Registration & Coffee
0800 - 0815	Welcome & Introduction
0815 - 0830	PRE-TEST
0815 - 0930	Human Factors & Ergonomics in Process Safety
0930 - 0945	Break

















0945 - 1030	Cognitive & Physical Human Limitations
1030 - 1130	Human Error & Systems Design
1130 - 1230	Work Environment & Safety Culture
1230 - 1245	Break
1245 - 1315	Task Analysis
1315 – 1420	Case Study: Chernobyl Disaster
1420 - 1430	Recap
1430	Lunch & End of Day One

Day 2: Tuesday, 17th of December 2024

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Significance of Organizational Culture
Break
Dimensions of Safety Culture
Behavioral-Based Safety
Leadership's Role in Fostering Safety Culture
Break
Safety Culture Assessment Tools
Workshop: Safety Culture Survey
Recap
Lunch & End of Day Two

Day 3: Wednesday, 18th of December 2024

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0730 - 0930	Importance of Training in Process Safety
0930 - 0945	Break
0945 - 1030	Developing Effective Training Programs
1030 - 1130	Competency Assessment & Management
1130 - 1230	Training Methodologies & Tools
1230 - 1245	Break
1245 - 1315	Refresher Training & Its Significance
1315 - 1420	Role-Playing: Mock Training Session
1420 - 1430	Recap
1430	Lunch & End of Day Three

Day 4: Thursday, 19th of December 2024

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0730 - 0930	Basics of Human Reliability Analysis (HRA)
0930 - 0945	Break
0945 - 1030	Techniques of HRA: THERP, SHERPA, etc.
1030 - 1130	Using HRA in Conjunction with Other Tools
1130 - 1230	Predicting & Reducing Human Error
1230 - 1245	Break
1245 - 1315	Workshop: Performing a Basic HRA
1315 - 1420	Feedback & Iteration in HRA
1420 - 1430	Recap
1430	Lunch & End of Day Four

















Friday, 20th of December 2024 Day 5:

0730 - 0830	Role of Communication in Safety
0830 - 0930	Tools for Effective Safety Communication
0930 - 0945	Break
0945 - 1030	Collaboration Between Departments & Teams
1030 - 1115	Handling of Near-Misses & Feedback Loops
1115 – 1200	Use of Technology in Safety Communication
1200 – 1215	Break
1215 - 1300	Group Activity: Developing a Safety Communication Plan
1300 - 1315	Course Conclusion
1315 – 1415	COMPETENCY EXAM - Module 3
1415 – 1430	Presentation of Course Certificates
1430	Lunch & End of Course

Simulators (Hands-on Practical Sessions)

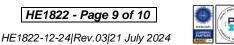
Practical sessions will be organized during the course for delegates to practice the theory learnt. Delegates will be provided with an opportunity to carryout various exercises using one of our state-of-the-art "CAMEO Chemicals Suite Simulator", "Chemical Compatibility 1.1 Simulator" and "Chemical Safety Database Simulator".







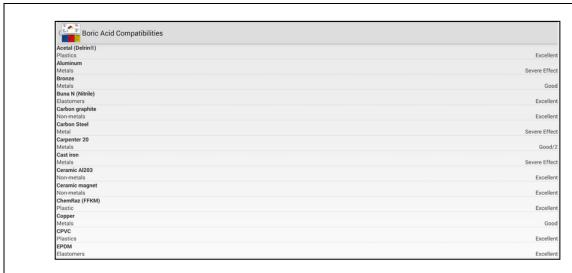




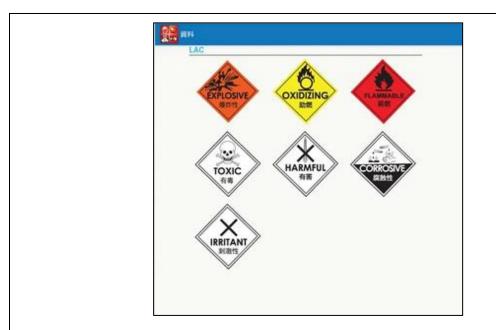








Chemical Compatibility 1.1 Simulator



Chemical Safety Database Simulator

Course Coordinator

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