COURSE OVERVIEW HE1823

Professional Process Safety Inspector (PPSI)
Module 4: Process Safety Auditing & Site Inspection

Course Title
Professional Process Safety Inspector (PPSI): Module 4: Process Safety Auditing & Site Inspection

Course Date/Venue
Session 1: August 18- 22, 2024/Club B Meeting Room, Ramada Plaza by Wyndham Istanbul City Center, Istanbul, Turkey
Session 2: December 15-19, 2024/Boardroom 1, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE

Course Reference
HE1823

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 4 of this program is designed to provide participants with a detailed and up-to-date overview of Process Safety Auditing & Site Inspection. It covers the process safety audit planning and developing audit checklists; the auditor's ethics and standards of conduct; the audit program design and management; conducting pre-audit activities, on-site audit activities and post-audit activities; auditing internal control systems as well as preparing, coordinating, directing, obtaining feedback and continuous improvement; the process of development of environmental health & safety regulations; and the governmental, mother company and local bodies in environmental health & safety regulations.

During this interactive course, participants will learn the regulatory requirements and enforcement policy and procedures; the audit process operations, environmental impacts and related control technology; the auditor personal qualities and communication; the site inspection, PSM audit effectiveness and continuous improvement; and the future challenges in process safety including advanced materials and their safety considerations, climate change and its impact on safety.

Course Objectives

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

- Get certified as *a "Professional Process Safety Inspector"*
- Apply process safety audit planning and develop audit checklists
- Discuss auditor's ethics and standards of conduct and carryout audit program design and management
- Conduct pre-audit activities, on-site audit activities and post-audit activities
- Audit internal control systems as well as prepare, coordinate, direct, obtain feedback and apply continuous improvement
- Explain the process of development of environmental health & safety regulations including governmental, mother company and local bodies in environmental health & safety regulations
- Review regulatory requirements and enforcement policy and procedures
- Audit process operations, environmental impacts and related control technology
- Identify the auditor personal qualities and communication and employ site inspection, PSM audit effectiveness and continuous improvement
- Discuss the future challenges in process safety including advanced materials and their safety considerations, climate change and its impact on safety

Who Should Attend

This course provides an overview of all significant aspects and considerations of process safety inspection 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
  - ❖ HE1822: Professional Process Safety Inspector (PPSI): Module 3: Human Factors & Cultural Aspects

Course Certificate(s)

(1) Internationally recognized Wall Competency Certificates and Plastic Wallet Card Certificates 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 "*Professional Process Safety Inspector*". 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)

CEU Official Transcript of Records

TOR Issuance Date: 14-Nov-22

HTME No. 74851

Participant Name: Waleed Al Habeeb

Program Ref.	Program Title	Program Date	No. of Contact Hours	CEU's
HE1820	Professional Process Safety Inspector: Module 1: Fundamentals of Process Safety	October 02-06, 2022	30	3.0
HE1821	Professional Process Safety Inspector: Module 2: Process Safety Management (PSM) & Regulatory Framework	October 23-27, 2022	30	3.0
HE1822	Professional Process Safety Inspector: Module 3: Human Factors & Cultural Aspects	November 13-17, 2022	30	3.0
HE1823	Professional Process Safety Inspector: Module 4: Process Safety Auditing & Site Inspection	December 04-08, 2022	30	3.0

Total No. of CEU's Earned as of TOR Issuance Date **12.0**

TRUE COPY

Jaryl Castillo
Academic Director

Haward Technology has been approved as an Authorized Provider by the International Association for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, 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

P.O. Box 26070, Abu Dhabi, United Arab Emirates | Tel.: +971 2 3091 714 | E-mail: info@haward.org | Website: www.haward.org

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.

S

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 **25 years** of practical and industrial experience in **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 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 Fee

Istanbul	**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.
Dubai	**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 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***
0815 – 0930	***Introduction to Process Safety Auditing*** *Audit Types & Objectives ● Process Safety Audit Planning ● Audit Scope & Methodology ● Audit Team Composition & Roles ● Developing Audit Checklists*
0930 – 0945	*Break*
0945 – 1100	***Auditor's Ethics & Standards of Conduct*** *Conflict of Interest ● Independence ● Proficiency ● Material Facts & Disclosure ● Due Professional Care ● Confidentiality*
1100 – 1230	***Audit Program Design & Management*** *Audit Program Objectives & Scope ● Audit Program Organization ● Protocols, Checklists & Guides ● Frequency of Audits & Selection of Sites ● Quality Assurance Provisions ● Auditor Staffing & Training ● Document Management*
1230 – 1245	*Break*
1245 – 1420	***Pre-Audit Activities*** *Establishment of Audit Scope & Objectives & their Communication to Interested Persons ● Assembly & Review of Available Information Pertinent to the Audit*
1420 – 1430	***Recap***
1430	*Lunch & End of Day One*

Day 2

0730 – 0930	***Pre-Audit Activities (cont'd)*** *Preparation of the Audit Plan Directed at Efficient & Effective Use of Resources to Achieve Audit Objectives ● Contact with the Auditee to Exchange Information & Begin to Lay the Groundwork for a Cordial & Productive Working Relationship*
0930 – 0945	*Break*
0945 – 1100	***Pre-Audit Activities (cont'd)*** *Team Selection & Coordination to Assure that all Members are Capable & Prepared to Carryout their Assigned Role ● Determination of Final Report Scope, Format & Distribution*
1100 – 1230	***On-Site Audit Activities*** *Opening Meeting ● Collecting Audit Evidence ● Development & Review of Findings ● Closing Meeting*
1230 – 1245	*Break*
1245 – 1420	***Post-Audit Activities*** *Reporting ● Documentation ● Corrective Action*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Two*

Day 3

0730 – 0930	***Audit of Internal Control Systems*** *Preparing ● Coordinating ● Directing ● Obtaining Feedback ● Continuous Improvement*
0930 – 0945	*Break*
0945 – 1100	***Audit of Regulatory Aspects*** *Process of Development of Environmental Health & Safety Regulations ● Governmental, Mother Company & Local Bodies in Environmental Health & Safety Regulations*
1100 – 1230	***Audit of Regulatory Aspects (cont'd)*** *Regulatory Requirements ● Enforcement Policy & Procedures*
1230 – 1245	*Break*
1245 – 1420	***Audit of Process Operations, Environmental Impacts & Related Control Technology*** *Typical Environmental Health or Safety Impacts ● Monitoring of Environmental Health & Safety Impacts ● Control Techniques & Devices ● Operation & Maintenance of Control Devices & Techniques*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Three*

Day 4

0730 – 0930	***Auditor Personal Qualities & Communication*** *Attitude ● Teamwork ● Adaptability ● Determination ● Communications ● Leadership*
0930 – 0945	*Break*
0945 – 1100	***Site Inspection*** *Plan & Conduct a Site Inspection ● Complete Inspection Reports ● Develop Recommendations & Follow-Up*

1100 – 1230	***Site Inspection (cont'd)*** *Manage an Effective Inspection Program ● Establish Pre & Post-Inspection Tasks ● What to Inspect & where to Gather Information*
1230 – 1245	*Break*
1245 – 1420	***Site Inspection (cont'd)*** *Recording Observations Accurately ● Developing & Using Checklists in Continuous & Formal Inspections*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Four*

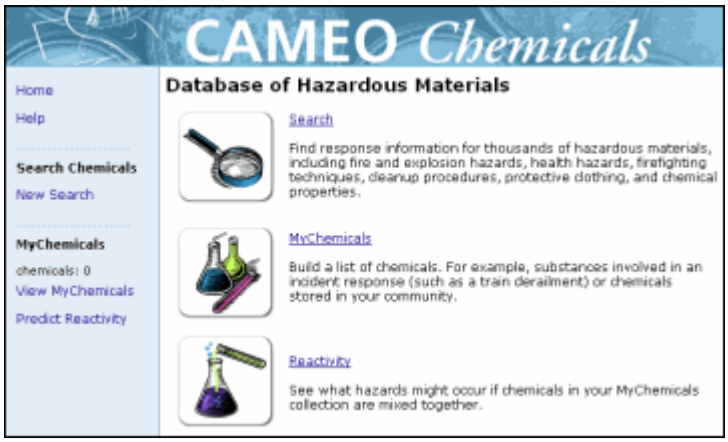
Day 5

0730 – 0930	***Site Inspection (cont'd)*** *Handling Employee Reactions to the Inspection Process ● Analyzing Data & Setting Priorities ● Observation Techniques*
0930 – 0945	*Break*
0945 – 1100	***PSM Audit Effectiveness & Continuous Improvement*** *Process Safety Performance Indicators ● Tracking Audit Effectiveness Over Time ● Continuous Improvement in Process Safety ● Developing a Process Safety Improvement Plan*

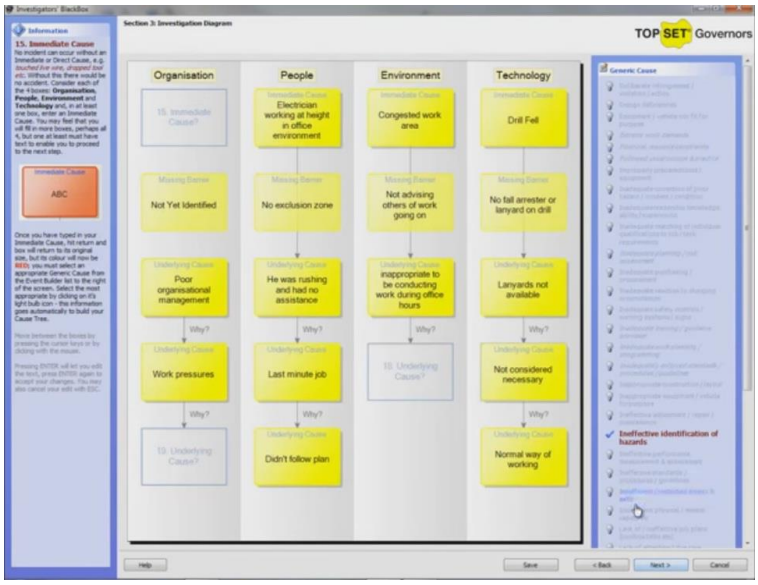
1100 – 1200	***Future Trends & Closing*** *Future Challenges in Process Safety ● Advanced Materials & Their Safety Considerations ● Climate Change & Its Impact on Safety ● Review of the Entire Course ● Feedback and Q&A Session*
1200 – 1215	*Break*
1215 – 1300	***General Discussion, Questions & Answers***
1300 – 1315	***Course Conclusion***
1315 – 1415	***COMPETENCY EXAM – Module 4***
1415 – 1430	*Presentation of Course Certificates*
1430	*Lunch & End of Course*

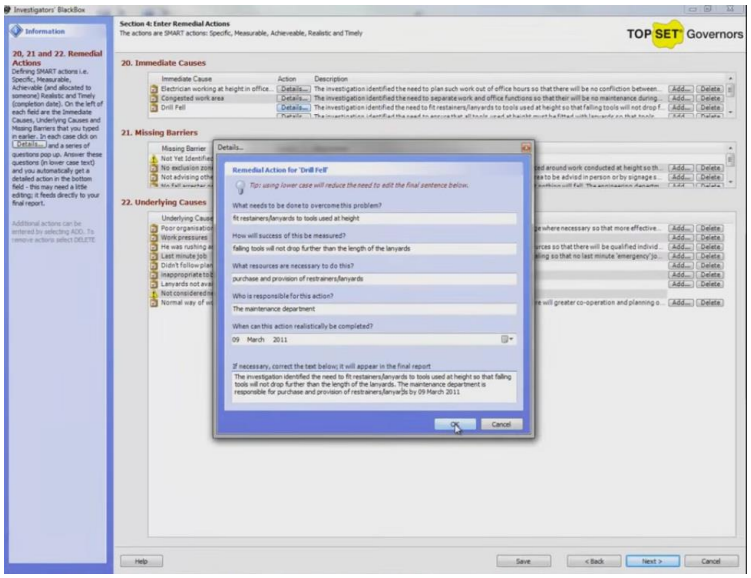
Simulators (Hands-on Practical Sessions)

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", "BlackBox Simulator"; "Chemical Compatibility 1.1 Simulator" and "Chemical Safety Database Simulator".

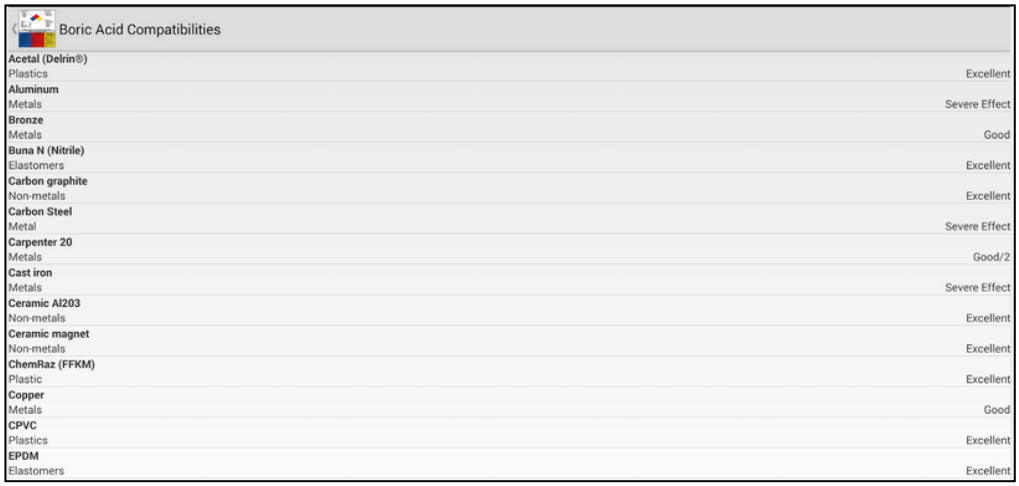


CAMEO Chemicals Suite Simulator

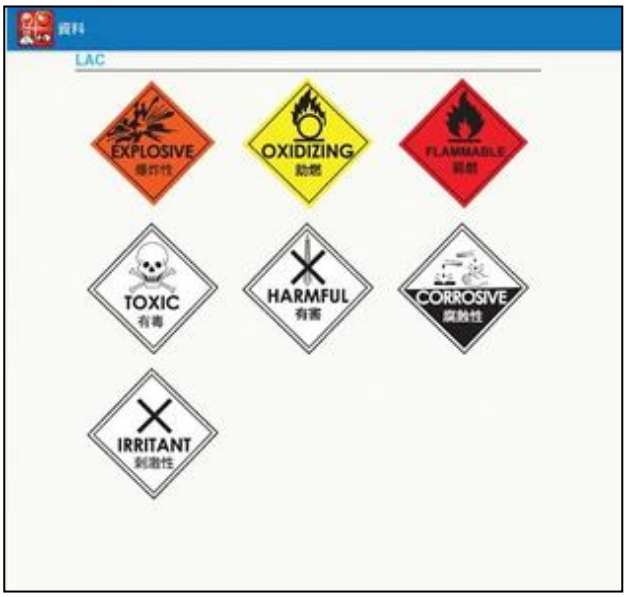




BlackBox Software Tool



Chemical Compatibility 1.1 Simulator



Chemical Safety Database Simulator

Course Coordinator
Mari Nakintu, Tel: +971 2 30 91 714, Email: mari1@haward.org