COURSE OVERVIEW HE1821

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

Course Title

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

Course Date/Venue

September 08-12, 2024/Meclis 1 Meeting Room, Divan Istanbul Sisli, Istanbul, Turkey

Course Reference

HE1821

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 2 of this program is designed to provide participants with a detailed and up-to-date overview of Process Safety Management (PSM) & Regulatory Framework. It covers the 14 PSM elements and the process safety information (PSI) essentials; the process hazard analysis (PHA) methodologies; developing and implementing operating procedures; the contractor safety management, the importance of emergency planning and developing emergency response plans; coordinating with external agencies; and the crisis communication and global regulatory landscape in process safety.

During this interactive course, participants will learn the role of agencies like OSHA, EPA, etc and the key standards and guidelines (e.g., NFPA, CCPS); the differences between occupational safety and process safety regulations; the importance of compliance and enforcement; the need for incident investigations and root cause analysis methodologies; the effective reporting techniques and management of change; the process safety audits, effective auditing techniques and tracking and closure of audit findings; and the KPIs and performance metrics in process safety including continuous improvement models.

Course Objectives

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

- Complete Module 2 of the *"Professional Process Safety Inspector"* program is your successful road for this prestigious professional certification
- Identify the 14 PSM elements and employee participation in PSM
- Discuss process safety information (PSI) essentials and apply process hazard analysis (PHA) methodologies
- Develop and implement operating procedures and carryout contractor safety management
- Explain the importance of emergency planning, develop emergency response plans and coordinate with external agencies
- Apply drills, simulations and training as well as crisis communication
- Identify the global regulatory landscape in process safety and the role of agencies like OSHA, EPA, etc.
- Review the key standards and guidelines (e.g., NFPA, CCPS) and the differences between occupational safety and process safety regulations
- Discuss the importance of compliance and enforcement and the need for incident investigations
- Carryout root cause analysis methodologies, effective reporting techniques and management of change
- Employ process safety audits, effective auditing techniques and tracking and closure of audit findings
- Apply KPIs and performance metrics in process safety including continuous improvement models

Who Should Attend

This course provides an overview of all significant aspects and considerations of process safety management (PSM) and regulatory framework 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 Haward's HE1820: Professional Process Safety Inspector (PPSI): Module 1: Fundamentals of Process Safety Course.

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:-

Haward Technology Middle East

Certifies that

Waleed Al Habeeb

Has successfully completed a course on

Professional Process Safety Inspector:
Module 1: Fundamentals of Process Safety
Module 2: Process Safety Management
(PSM) & Regulatory Framework

and is hereby awarded 6.0 CEUs (Continuing Education Units)
equivalent to 60 PDHs (Professional Development Hours)

Oct 23-27, 2022	74851/01/HE1821/DXB/27.10.22
Course Date	Certificate Number
Oct 27, 2022	Oct 27, 2027
Certificate Issuance Date	Certificate Expiry Date

Mr. John Burnip
Course Instructor

ACTVET License No.
0588/2013

Mr. Jaryl Castillo
Academic Director

Certificate Accreditation
Please see overleaf

(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

Total No. of CEU's Earned as of TOR Issuance Date **6.0**

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.

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.

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. Andrew Ladwig is a **Senior Health**, **Safety & Environmental** (**HSE**) **Consultant** with over **25 years** of extensive experience within the **Oil & Gas**, **Refinery**, **Petrochemical & Power** industries. His expertise widely covers in the areas of Certified Environmental Manager (**CEM**), Environmental Management & Technology (**EMT**), **Environmental Management** System, Environmental Impact Assessment (**EIA**), **Environmental Monitoring & Modelling**, **Environmental Awareness** in Industrial Plant, **Environmental Pollution & Control** in Oil Industry, **Environmental Enforcement & Compliance**, Waste Management & Environmental Protection, Environmental **Emergency Plan**, **Environmental Policy** Analysis, Health & **Environment Hazards**, **Environmental Emission Control**, **Environmental Incident Investigation** & Root Cause Analysis, **Hazardous Materials & Chemicals** Handling, Hazardous Materials (**HAZMAT**), Hazard Identification & Operability (**HAZOP**), **Process Hazard** Analysis (**PHA**), Process Safety Management (**PSM**), Behavioural Based Safety (**BBS**), Authorized Gas Tester (**AGT**), **Confined Space Entry & Rescue**, Pre-Startup Safety Reviews (**PSSR**), **Risk Assessment**, **Risk Management**, Permit to Work (**PTW**), **Lock Out/Tag Out** Permit to Work Systems, Data Analysis, Sampling & Analysis, Job Safety Analysis (**JSA**), **Hazardous Material** Classification & Storage/Disposal, **Risk** Monitoring, Authorized Gas Tester (**AGT**), **Working at Heights**, **H_2S**, **Emergency Planning**, **Emergency Response & Crisis** Management Operations, **Waste Management** Monitoring, Personal Protective Equipment (**PPE**), **Gas Testing & Energy** Isolations, **Fire & Gas**, PTW & Gas Tester, Basic **Fire Fighting**, **Fire Protection**, **Fire Extinguisher** Service & Maintenance, **First Aid**, **Near Miss Reporting** Best Practices, **Dangerous Goods** and Occupational Health & Safety. Further, he is well versed in **Ammonia Plant Safety**, **Ammonia Recovery**, Hazard of **Ammonia Handling**, Storage & Shipping, **Sulphur Recovery**, **Phenol Recovery** & Extraction, **Wax Sweating & Blending**, **Wax Molding/Slabbing**, **Wax Bleachers**, **Extractors**, **Coal** Processing, **Water** Purification, Gasification, Distillation, Fractionation, **Industrial Drying**, Principles, Selection & Design, **Steam Trapping & Control**, **Column, Pump & Exchangers**, Troubleshooting & Design, Rotating Equipment Operation & Troubleshooting, **Control & ESD** System and **Production Optimization**.

During his career life, Mr. Ladwig has gained his practical experience through his various significant positions and dedication as the **Senior HSE Manager**, **Warehouse Manager**, **Quality Manager**, **Business Analyst**, **Senior HSE Engineer**, **Process Engineer**, **HSE Supervisor**, **Senior HSE Specialist**, **HSE Officer**, **Senior Process Controller**, **Process Controller**, **Safety Officer**, **Senior Lecturer**, **Senior HSE Consultant** and **Senior Consultant/Trainer** for various companies such as the Sasol Ltd., Sasol Wax, Sasol Synfuels, just to name a few.

Mr. Ladwig is a **Registered SAQA Qualification** (**NQF Level 4**) in **Chemical Operations**. Further, he is a **Certified Multi-Skilled** in **Instrumentation** and **Mechanical**, a **Certified Instructor/Trainer** and has delivered various trainings, workshops, seminars, courses and conferences internationally.

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, 08th of September 2024***

0730 – 0800	*Registration & Coffee*
0800 – 0815	*Welcome & Introduction*
0815 – 0830	***PRE-TEST***
0815 – 0930	***Overview of the 14 PSM Elements***
0930 – 0945	*Break*
0945 – 1030	***Employee Participation in PSM***
1030 – 1130	***Process Safety Information (PSI) Essentials***
1130 – 1230	***Process Hazard Analysis (PHA) Methodologies***
1230 – 1245	*Break*
1245 – 1315	***Developing & Implementing Operating Procedures***
1315 – 1420	***Contractor Safety Management***
1420 – 1430	***Recap***
1430	*Lunch & End of Day One*

Day 2: ***Monday, 09th of September 2024***

0730 – 0930	***Importance of Emergency Planning***
0930 – 0945	*Break*
0945 – 1030	***Development of Emergency Response Plans***
1030 – 1130	***Coordination with External Agencies***
1130 – 1230	***Drills, Simulations & Training***
1230 – 1245	*Break*
1245 – 1315	***Crisis Communication***
1315 – 1420	***Case Study: Flixborough Disaster & Its Aftermath***
1420 – 1430	***Recap***
1430	*Lunch & End of Day Two*

Day 3: ***Tuesday, 10th of September 2024***

0730 – 0930	***Global Regulatory Landscape in Process Safety***
0930 – 0945	*Break*
0945 – 1030	***Role of Agencies Like OSHA, EPA, Etc.***
1030 – 1130	***Key Standards & Guidelines (e.g., NFPA, CCPS)***
1130 – 1230	***Differences Between Occupational Safety & Process Safety Regulations***

1230 – 1245	*Break*
1245 – 1315	***Importance of Compliance & Enforcement***
1315 – 1420	***Case Study: Deepwater Horizon & Regulatory Responses***
1420 – 1430	***Recap***
1430	*Lunch & End of Day Three*

Day 4: Wednesday, 11th of September 2024

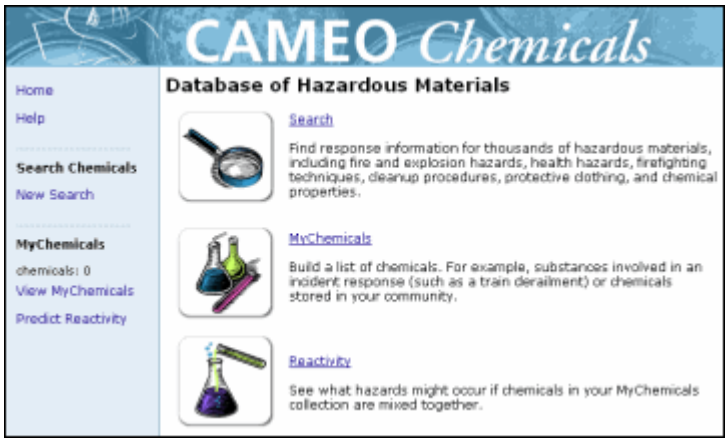
0730 – 0930	***The Need for Incident Investigations***
0930 – 0945	*Break*
0945 – 1030	***Root Cause Analysis Methodologies***
1030 – 1130	***Effective Reporting Techniques***
1130 – 1230	***Lessons Learned & Knowledge Sharing***
1230 – 1245	*Break*
1245 – 1315	***Management of Change & Its Significance***
1315 – 1420	***Workshop: Root Cause Analysis of a Mock Incident***
1420 – 1430	***Recap***
1430	*Lunch & End of Day Four*

Day 5: Thursday, 12th of September 2024

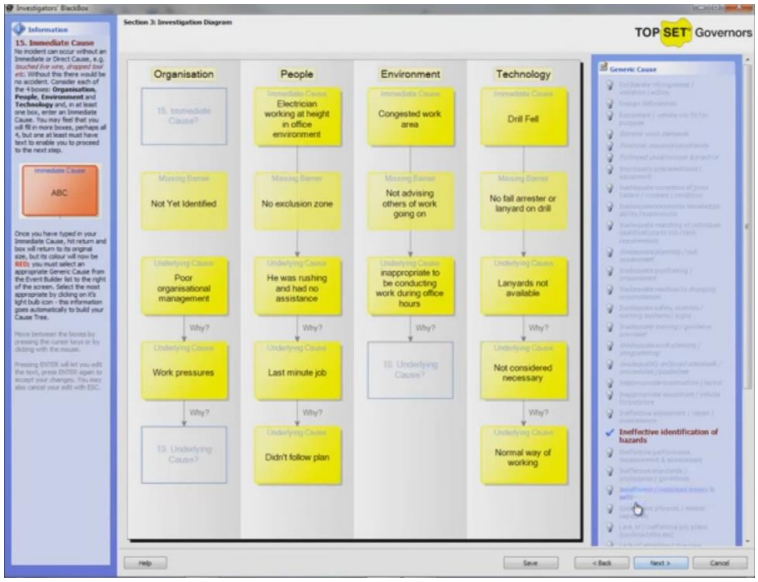
0730 – 0830	***Introduction to Process Safety Audits***
0830 – 0930	***Effective Auditing Techniques***
0930 – 0945	*Break*
0945 – 1030	***Tracking & Closure of Audit Findings***
1030 – 1115	***KPIs & Performance Metrics in Process Safety***
1115 – 1200	***Continuous Improvement Models***
1200 – 1215	*Break*
1215 – 1300	***Group Discussion: Challenges & Best Practices in PSM***
1300 – 1315	***Course Conclusion***
1315 – 1415	***COMPETENCY EXAM – Module 2***
1415 – 1430	*Presentation of Course Certificates*
1430	*Lunch & End of Course*

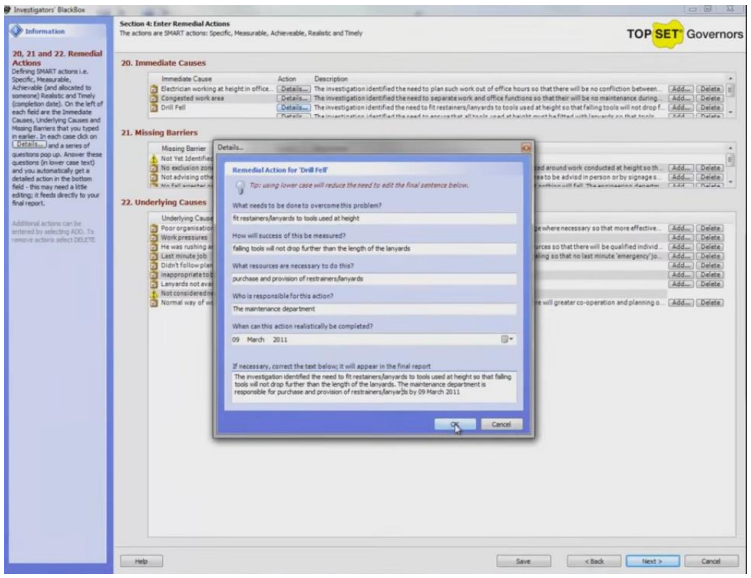
Simulators (Hands-on Practical Sessions)

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".

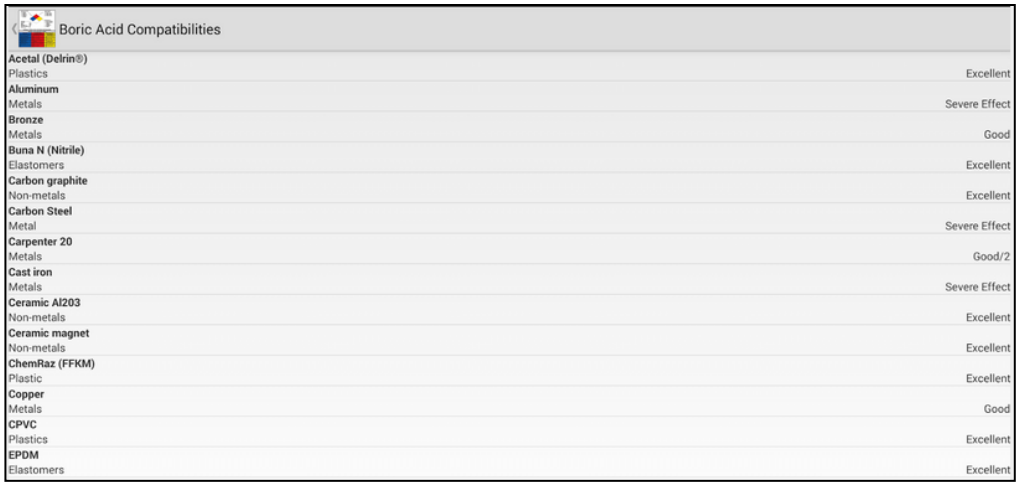


CAMEO Chemicals Suite Simulator

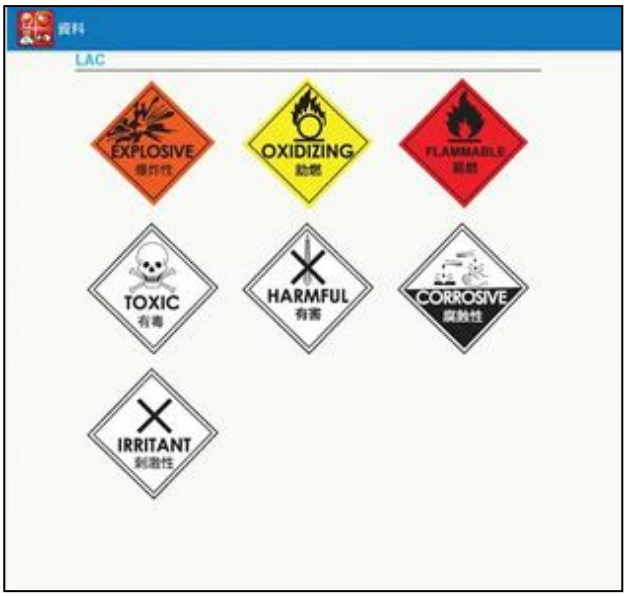




BlackBox Software Tool



Chemical Compatibility 1.1 Simulator



Chemical Safety Database Simulator

Course Coordinator

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