COURSE OVERVIEW HE0171
Certified Process Safety Professional (CPSP)
(CCPS Exam Preparation Training)

Course Title
Certified Process Safety Professional (CPSP)
(CCPS Exam Preparation Training)

Course Date/Venue
Option 1: August 03-07, 2025/Glasshouse Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE
Option 2: August 17-21, 2025/Glasshouse Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE

Course Reference
HE0171

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

Course Introduction

This practical and highly-interactive course includes real-life case studies and exercises where participants will be engaged in a series of interactive small groups and class workshops.

This course is designed to provide participants with a detailed and up-to-date overview of Certified Process Safety Professional (CPSP) *(CCPS Exam Preparation Training).* It covers the four pillars and 20 elements of risk-based process safety (RBPS) and the importance of process safety; the process safety culture, leadership commitment, employee engagement and empowerment and safety-oriented culture; gathering and maintaining process safety information; and the key components of Process Safety Information (PSI).

Further, the course will also discuss the Process Hazard Analysis (PHA) fundamentals as well as HAZOP, What-If, FMEA techniques and risk management; the advanced PHA techniques, human factors in process safety and adherence to safety protocols and procedures; the Safety Instrumented Systems (SIS), potential consequences of process failures and consequence analysis in risk assessment; building and maintaining process safety competency within the organization; the management of change (MoC), emergency management and response; and the incident investigation, root cause analysis and operational readiness and pre-startup safety reviews (PSSR).

During this interactive course, participants will learn the asset integrity and reliability, safe work practices, permit-to-work systems and contractor management; the key process safety metrics, metrics for continuous improvement and process safety audits; the management reviews, continuous improvement processes and integrating process safety into corporate governance; the stakeholder engagement and communication, sustainability and process safety; the emerging trends and technologies in process safety.

Course Objectives

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

- Get prepared for the next CCPS-CPSP exam and have enough knowledge and skills to pass such exam in order to get the Certified Process Safety Professional (CPSP) certification from the Center for Chemical Process Safety (CCPS)
- Discuss the four pillars and 20 elements of risk-based process safety (RBPS) and the importance of process safety
- Develop a process safety culture, leadership commitment, employee engagement and empowerment and safety-oriented culture
- Gather and maintain process safety information and identify the key components of Process Safety Information (PSI)
- Discuss Process Hazard Analysis (PHA) fundamentals as well as HAZOP, What-If, FMEA techniques and risk management
- Carryout advanced PHA techniques, identify the human factors in process safety and ensure adherence to safety protocols and procedures
- Design and implement Safety Instrumented Systems (SIS), analyze potential consequences of process failures and use consequence analysis in risk assessment
- Build and maintain process safety competency within the organization and implement management of change (MoC), emergency management and response
- Apply incident investigation, root cause analysis and operational readiness and pre-startup safety reviews (PSSR)
- Employ asset integrity and reliability, safe work practices, permit-to-work systems and contractor management
- Identify and track key process safety metrics, use metrics for continuous improvement and conduct process safety audits
- Conduct management reviews, implement continuous improvement processes and integrate process safety into corporate governance
- Apply stakeholder engagement and communication, sustainability and process safety as well as discuss the emerging trends and technologies in process safety

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-based process safety for employees from operations, maintenance and technical services.

Exam Eligibility & Structure

Exam candidates shall have the following minimum prerequisites:-

- 5 years industrial experience with a degree (4 year / bachelor's or equivalent) from an accredited college or university in science, technology, engineering, or math (STEM), or
- 10 years experience for a degree in a non-STEM field or no degree

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

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

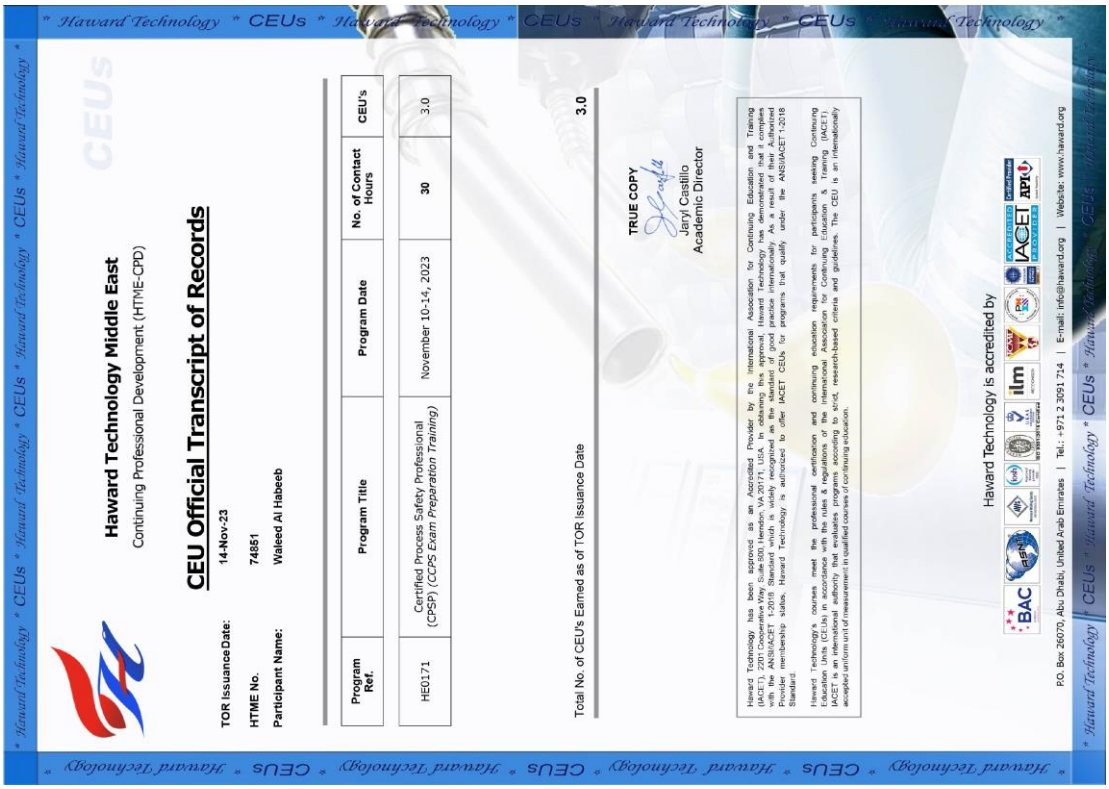
Exam Fee

US$ 535 per Delegate + **VAT**.

CCPS-CPSP Certificate(s)

CCPS-CPSP certificates will be issued to participants who have successfully passed the CCPS-CPSP examination.

(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-23
HTME No. 74851
Participant Name: Waleed Al Habeeb

Program Ref.	Program Title	Program Date	No. of Contact Hours	CEU's
HE0171	Certified Process Safety Professional (CPSP) (CCPS Exam Preparation Training)	November 10-14, 2023	30	3.0

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

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Jaryl Castillo
Academic Director

Haward Technology has been approved as an Accredited 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 1-2018 Standard which is widely recognized as a standard of excellence. As an IACET Accredited Provider Haward Technology is authorized to offer IACET CEUs for programs that qualify under the ANSI/IACET 1-2018 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

Haward's 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**. Haward's certificates are internationally recognized and accredited by the British Accreditation Council (BAC). 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 **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.

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 **30 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.

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***
0830 – 0930	***Overview of RBPS Framework*** *Introduction to the Four Pillars and 20 Elements of RBPS ● Importance of Process Safety and Historical Context*
0930 – 0945	*Break*
0945 – 1030	***Developing a Process Safety Culture*** *Leadership Commitment ● Employee Engagement and Empowerment ● Building and Maintaining a Safety-Oriented Culture*
10303 – 1130	***Understanding Process Safety Information (PSI)*** *Gathering and Maintaining Process Safety Information ● Key Components of PSI (e.g., Material Safety Data Sheets, Process Flow Diagrams)*
1130 – 1230	*Process Hazard Analysis (PHA) Fundamentals* *Overview of PHA Methodologies ● HAZOP, What-If, and FMEA Techniques*
1230 – 1245	*Break*
1245 – 1330	***Risk Management*** *Identifying and Assessing Risks ● Implementing Risk Management Strategies*
1330 – 1420	***Case Studies & Group Discussions*** *Review of Major Industrial Incidents ● Lessons Learned and Best Practices*
1420 – 1430	***Recap***
1430	*Lunch & End of Day One*

Day 2

0730 – 0830	***Advanced PHA Techniques*** *In-Depth Look at PHA Methodologies ● Conducting Effective PHAs*
0830 – 0930	***Human Factors in Process Safety*** *Understanding Human Error and its Impact on Safety ● Strategies to Mitigate Human Error*
0930 – 0945	*Break*
0945 – 1100	***Operational Discipline & Compliance*** *Ensuring Adherence to Safety Protocols and Procedures ● Role of Operational Discipline in Preventing Incidents*
1100 – 1230	***Safety Instrumented Systems (SIS)*** *Overview of SIS and their Role in Process Safety ● Design and Implementation of SIS*
1230 – 1245	*Break*
1245 – 1330	***Consequence Analysis*** *Techniques for Analyzing Potential Consequences of Process Failures ● Use of Consequence Analysis in Risk Assessment*
1330 – 1420	***Group Exercises & PHA Workshops*** *Practical Application of PHA Techniques ● Group Exercises to Reinforce Learning*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Two*

Day 3

0730 – 0830	***Process Safety Competency*** *Building and Maintaining Process Safety Competency within the Organization*
0830 – 0930	***Management of Change (MOC)*** *Principles of Effective MOC ● Implementation and Tracking of Changes*
0930 – 0945	*Break*
0945 – 1100	***Emergency Management & Response*** *Developing and Implementing Emergency Response Plans ● Coordination with Local Emergency Services*
1100 – 1230	***Incident Investigation & Root Cause Analysis*** *Techniques for Investigating Process Safety Incidents ● Conducting Root Cause Analysis*
1230 – 1245	*Break*
1245 – 1420	***Operational Readiness & Pre-Startup Safety Reviews (PSSR)*** *Ensuring Systems are Safe to Start ● PSSR Methodologies and Best Practices*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Three*

Day 4

0730 – 0830	***Asset Integrity & Reliability*** *Ensuring the Integrity and Reliability of Process Equipment ● Maintenance Strategies and Programs*
0830 – 0930	***Safe Work Practices*** *Development and Implementation of Safe Work Practices ● Permit-to-Work Systems and Contractor Management*
0930 – 0945	*Break*
0945 – 1100	***Process Safety Metrics & Performance Indicators*** *Identifying and Tracking Key Process Safety Metrics ● Using Metrics for Continuous Improvement*
1100 – 1230	***Auditing & Compliance*** *Conducting Process Safety Audits ● Ensuring Compliance with Regulations and Standards*
1230 – 1245	*Break*
1245 – 1330	***Management Review & Continuous Improvement*** *Conducting Management Reviews ● Implementing Continuous Improvement Processes*
1330 – 1420	***Group Discussions & Continuous Improvement Workshops*** *Sharing Best Practices and Lessons Learned ● Developing Action Plans for Continuous Improvement*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Four*

Day 5

0730 – 0930	***Integrating Process Safety into Corporate Governance*** *Role of Process Safety in Corporate Governance ● Aligning Process Safety with Business Objectives*
0930 – 0945	*Break*
0945 – 1100	***Stakeholder Engagement & Communication*** *Engaging with Stakeholders on Process Safety Issues ● Effective Communication Strategies*

1100 – 1230	***Sustainability & Process Safety*** *Role of Process Safety in Sustainability Initiatives ● Environmental and Social Aspects of Process Safety*
1230 – 1245	*Break*
1245 – 1345	***Future Trends in Process Safety*** *Emerging Trends and Technologies in Process Safety ● Preparing for Future Challenges*
1345 – 1400	***Course Conclusion***
1400 – 1415	***POST-TEST***
1415 - 1430	*Presentation of Course Certificates*
1430	*Lunch & End of Course*

MOCK Exam

Upon the completion of the course, participants have to sit for a MOCK Examination similar to the exam of the Certification Body through Haward's Portal. Each participant will be given a username and password to log in Haward's Portal for the MOCK Exam during the 30 days following the course completion. Each participant has only one trial for the MOCK exam within this 30-day examination window. Hence, you have to prepare yourself very well before starting your MOCK exam as this exam is a simulation to the one of the Certification Body.

Exam Periods

- March 10-17, 2025
- July 14-21, 2025
- November 10-17, 2025
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The deadline to sign up is at noon Eastern Time on Friday, prior to the exam. Applications take up to one month to review, after receipt of references. Please plan accordingly.

Practical Sessions

This practical and highly-interactive course includes real-life case studies and exercises:-

Course Coordinator

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