COURSE OVERVIEW HE0171
CCPS Process Safety Professional Certification (CCPSC)
(CCPS Exam Preparation Training)

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

Course Date/Venue
June 21-25, 2026/Meeting Plus 9, City Centre Rotana, Doha, Qatar

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 CCPS Process Safety Professional Certification (CCPSC). It covers the process safety, risk-based process safety (RBPS) and elements framework and commitment to process safety; the components of safety culture, characteristics of strong versus weak safety culture and cultural assessments and improvement tools; the importance of regulatory and corporate compliance, identification of applicable standards and gap analysis; and the audit techniques, common pitfalls and corrective actions.

Further, the course will also discuss the process knowledge management, hazard identification and risk analysis (HIRA); the hazard identification in accident prevention and risk matrix and consequence-severity analysis; the operating procedures, safe work practices and asset integrity and reliability; the managing risk, management of change (MOC) and operational readiness; and the operational discipline and procedures adherence, shift handover and communication protocols, abnormal situation management and incident prevention via operational excellence.

During this interactive course, participants will learn the emergency management, training and performance assurance, learning from experience and incident investigation; the measurement and metrics, auditing, management review and continuous improvement and integration of RBPS across the lifecycle; the process safety leadership and culture, CCPSC code of ethics, confidentiality, integrity, and accountability; and the ethical dilemmas, decision-making and professional conducting and reporting.

Course Objectives

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

- Get prepared for the next CCPSC-CPSP exam and have enough knowledge and skills to pass such exam in order to get the CCPS Process Safety Professional Certification (CCPSC) from the Center for Chemical Process Safety (CCPS)
- Discuss process safety, risk-based process safety (RBPS) elements framework and commitment to process safety
- Identify the components of safety culture, characteristics of strong versus weak safety culture and cultural assessments and improvement tools
- Explain the importance of regulatory and corporate compliance, identification of applicable standards, gap analysis and audit techniques and common pitfalls and corrective actions
- Apply process knowledge management, hazard identification and risk analysis (HIRA), hazard identification in accident prevention and risk matrix and consequence-severity analysis
- Carryout operating procedures, safe work practices and asset integrity and reliability
- Employ managing risk, management of change (MOC) and operational readiness
- Conduct operations covering operational discipline and procedures adherence, shift handover and communication protocols, abnormal situation management and incident prevention via operational excellence
- Apply emergency management and training and performance assurance, learning from experience and incident investigation
- Carryout measurement and metrics, auditing, management review and continuous improvement and integration of RBPS across the lifecycle
- Discuss process safety leadership and culture, CCPSC code of ethics, confidentiality, integrity, and accountability, ethical dilemmas and decision-making and professional conduct and reporting

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 CCPS process safety professional certification (CCPSC) 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.

Training Fee

US$ 6,000 per Delegate. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Exam Fee

US$ 540 per Delegate + **VAT**.

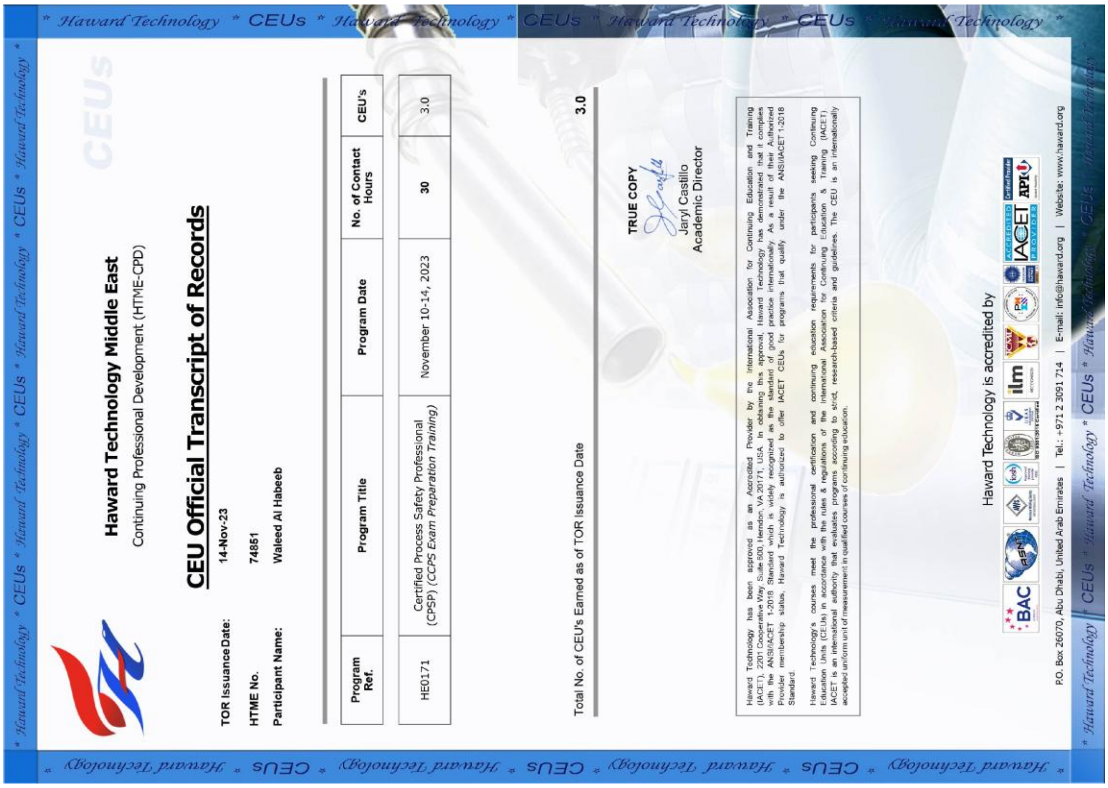
Accommodation

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

CCPSC-CPSP Certificate(s)

(1) CCPSC-CPSP certificates will be issued to participants who have successfully passed the CCPSC-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.



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.

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 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, **Occupational Hygiene and Safety**, Associate Safety Professional (**ASP**), **Safety Professional**, **Process Safety Professional**, **Fire Protection Specialist**, **HSE Risk** Assessment & Management Concepts, **HSE Management** Policy & Standards, **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: ***Sunday, 21st of June 2026***

0730 – 0800	*Registration & Coffee*
0800 – 0815	*Welcome & Introduction*
0815 – 0830	***PRE-TEST***
0830 – 0930	***Overview of Process Safety*** *History of Major Industrial Accidents • Evolution of Process Safety Standards • Differences Between Occupational Safety and Process Safety • Role of Engineers & Professionals in Process Safety*
0930 – 0945	*Break*

0945 – 1030	***Introduction to CCPS & the CCPSC Certification*** *Overview of CCPS Mission and RBPS Framework • Structure and Benefits of CCPSC Certification • Application, Eligibility, and Exam Overview • Ethics and Professional Responsibilities*
1030 – 1130	***Risk-Based Process Safety (RBPS) Elements Framework*** *Four Pillars of RBPS • Overview of 20 Elements • Interaction and Integration Between Elements • Implementation Strategy and Lifecycle Approach*
1130 – 1230	***Pillar 1: Commitment to Process Safety – Overview*** *Understanding Organizational Commitment • Role of Leadership in Safety Culture • Importance of Workforce Involvement • Integrating Commitment into Operations*
1230 – 1245	*Break*
1245 – 1330	***Element: Process Safety Culture*** *Definition and Components of Safety Culture • Characteristics of Strong vs. Weak Safety Culture • Cultural Assessments and Improvement Tools • Case Studies on Culture-Related Failures*
1330 – 1420	***Element: Compliance with Standards*** *Importance of Regulatory and Corporate Compliance • Identification of Applicable Standards (OSHA, EPA, API, etc.) • Gap Analysis and Audit Techniques • Common Pitfalls and Corrective Actions*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day One*

Day 2: ***Monday, 22nd of June 2026***

0730 – 0830	***Element: Process Knowledge Management*** *Critical Information Types (P&IDs, MSDS, SDS) • Documentation Control & Retention Practices • Use of Engineering Standards and Specifications • Knowledge Transfer and Training Requirements*
0830 – 0930	***Element: Hazard Identification & Risk Analysis (HIRA)*** *Techniques: HAZOP, What-If, FMEA, LOPA • Choosing the Right Method for the Hazard • Team Composition and Facilitator Role • Case Studies in Hazard Analysis*
0930 – 0945	*Break*
0945 – 1100	***Pillar 2: Understanding Hazards & Risk*** *Overview of Elements in Pillar 2 • Role of Hazard Identification in Accident Prevention • Risk Matrix and Consequence-Severity Analysis • Tolerability of Risk & ALARP Principle*
1100 – 1230	***Element: Operating Procedures*** *Components of Effective Operating Procedures • Procedure Development and Control • Operator Training and Validation • Periodic Review and Updates*
1230 – 1245	*Break*
1245 – 1330	***Element: Safe Work Practices*** *Hot Work, Confined Space, Lockout/Tagout (LOTO) • Permit-to-Work Systems • Contractor Safety Practices • Communication and Documentation*

1330 – 1420	***Element: Asset Integrity & Reliability*** *Inspection and Maintenance Strategies • Risk-Based Inspection (RBI) Approach • Reliability-Centered Maintenance (RCM) • Failure Modes and Degradation Mechanisms*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the T were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day Two*

Day 3: Tuesday, 23rd of June 2026

0730 – 0830	***Pillar 3: Managing Risk*** *Overview of Managing Risk Elements • Process Safety Performance Indicators • Barrier Management Systems • Continuous Improvement Cycles*
0830 – 0930	***Element: Management of Change (MOC)*** *Types of Changes Requiring MOC • MOC Workflow and Documentation • Technical Basis for Change and Risk Evaluation • Common MOC Failures and Lessons Learned*
0930 – 0945	*Break*
0945 – 1100	***Element: Operational Readiness*** *Pre-Startup Safety Reviews (PSSR) • Commissioning Checklists and Validation • Interface with MOC and Training • Temporary Operations and Readiness Review*
1100 – 1230	***Element: Conduct of Operations*** *Operational Discipline and Procedures Adherence • Shift Handover and Communication Protocols • Abnormal Situation Management • Incident Prevention via Operational Excellence*
1230 – 1245	*Break*
1245 – 1315	***Element: Emergency Management*** *Emergency Response Planning (ERP) • Scenario-Based Drills and Exercises • Coordination with External Agencies • Post-Incident Recovery Planning*
1315 - 1420	***Element: Training & Performance Assurance*** *Competency Development Strategies • Assessment and Qualification Methods • Refresher Training and Continuous Learning • Training Documentation and Audit Readiness*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the T were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day Three*

Day 4: Wednesday, 24th of June 2026

0730 – 0830	***Pillar 4: Learning from Experience*** *Overview of Learning Elements • Importance of Feedback Loops • Learning Organizations and Safety Maturity • Measuring Success Through Learning*
0830 – 0930	***Element: Incident Investigation*** *Types of Incidents (Near Misses, Recordables, Major Events) • Root Cause Analysis Tools (5 Whys, RCA, TapRooT) • Investigation Process and Documentation • Corrective Actions and Tracking*
0930 – 0945	*Break*
0945 – 1100	***Element: Measurement & Metrics*** *Leading and Lagging Indicators • Process Safety Metrics Examples • Data Analysis and Trend Identification • Benchmarking with Industry Standards*

1100 – 1230	***Element: Auditing*** *Internal versus External Audits • Planning and Executing Audits • Audit Checklist Development • Findings, Reporting, and Corrective Actions*
1230 – 1245	*Break*
1245 – 1330	***Element: Management Review & Continuous Improvement*** *Review Frequency and Content • Role of Top Management in Safety Performance • Action Tracking and Lessons Implementation • Integrating Review Outcomes into Planning*
1330 – 1420	***Integration of RBPS Across the Lifecycle*** *Applying RBPS from Design to Decommissioning • Process Safety in Projects and Modifications • Integration with PSM, ISO 45001, ISO 14001 • Cross-Functional Collaboration Models*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the T were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day Four*

Day 5: ***Thursday, 25th of June 2026***

0730 – 0830	***CCPSC Exam Preparation Strategy*** *Exam Structure and Question Types • Time Management During the Exam • Review of Sample Questions • Key Exam-Taking Tips and Common Pitfalls*
0830 - 0930	***Case Studies in Process Safety*** *Real-Life Incidents: Bhopal, Texas City, Deepwater Horizon • Lessons Learned and RBPS Failures • Application of RBPS Elements in Prevention • Team Discussions and Analysis*
0930 – 0945	*Break*
0945 – 1100	***Process Safety Leadership & Culture*** *Driving Commitment from Top Leadership • Influencing Culture from the Ground Up • The Role of Champions and Change Agents • Safety Communication Techniques*
1100 – 1230	***Ethical Responsibilities & Professional Practice*** *CCPSC Code of Ethics • Confidentiality, Integrity, and Accountability • Ethical Dilemmas and Decision-Making • Professional Conduct and Reporting*
1230 – 1245	*Break*
1245 – 1345	***Final Review: RBPS Elements Summary*** *Flash Cards or Matrix Recap of 20 RBPS Elements • How Elements Interact • Matching Elements to Real-World Situations • Group Activities and Mock Drill*
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 60 days following the course completion. Each participant has only one trial for the MOCK exam within this 60-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

- TBA

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

Reem Dergham, Tel: +974 4423 1327, Email: reem@haward.org