

COURSE OVERVIEW HE1020 Associate Safety Professional[®] (ASP[®])

Exam Preparation Training

Course Title

Associate Safety Professional[®] (ASP[®]): Exam Preparation Training

Course Date/Venue

July 07-11, 2024/Boardroom, Warwick Hotel Doha, Doha, Qatar

30 PDHs)

Course Reference HE1020

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

Course Description









hands-on, highly-interactive This course includes various practical sessions and exercises. Theory learnt will be applied using our state-of-the-art simulators.

BCSP awards the Associate Safety Professional to individuals who demonstrate competency and work full-time in professional positions where at least 50% of duties are task devoted to the prevention of harm to individuals in the workplace environment. Whether your career goals include seeking a new position, moving up in your current organization or moving to private practice, you can accelerate your opportunities by achieving the Associate Safety Professional (ASP) certification.

The purpose of this course is to walk you through the process of applying for and taking the examination leading to the ASP certification. It provides you with in-depth information regarding the application process, examination process and the rules and procedures essential in retaining the ASP certification after you achieve it.

This course is designed to provide participants with a detailed and up-to-date overview of Associate Safety Professional®. It covers the chemistry and industrial hygiene calculations. electrical calculations, radiation calculations, structural and mechanical calculations. engineering control calculations and physics calculations.



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The course will also discuss the financial principles, statistics, performance metrics and indicators; the safety management systems covering risk management, hazard control process, management process and project management; the system safety, fleet safety and safety programs; and the ergonomics covering human factors, measurement, monitoring and controls.

During this interactive course, participants will learn to employ fire prevention and protection; recognize fire and explosion hazards; apply fire control and emergency management; identify occupational health covering biological hazards and controls, chemical hazards and controls as well as physical hazards and controls; and carryout environmental management through environmental hazards identification, engineering controls, administrative controls & practices and hazardous waste storage & disposal.

Course Objectives

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

- Get prepared for the next ASP[®] exam and have enough knowledge and skills to pass such exam to get the ASP[®] certification
- Apply chemistry and industrial hygiene calculations, electrical calculations, radiation calculations, structural and mechanical calculations, engineering control calculations and physics calculations
- Discuss financial principles, statistics, performance metrics and indicators
- Carryout safety management systems covering risk management, hazard control process, management process and project management
- Implement system safety, fleet safety and safety programs
- Identify ergonomics covering human factors, measurement, monitoring and controls
- Employ fire prevention and protection and recognize fire and explosion hazards
- Apply fire control and emergency management
- Describe occupational health covering biological hazards and controls, chemical hazards and controls as well as physical hazards and controls
- Carryout environmental management through environmental hazards identification, engineering controls, administrative controls and practices and hazardous waste storage and disposal
- Apply training and education methods as well as communication and group dynamics

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**.



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Who Should Attend

This course provides an overview of all significant aspects and considerations of safety management for safety professionals who perform at least 50% of professional level safety duties including making worksite assessments to determine risks, potential hazards and controls, evaluating risks and hazard control measures, investigating incidents, maintaining and evaluating incident and loss records, and preparing emergency response plans. Other duties could include hazard recognition, fire protection, regulatory compliance, health hazard control, ergonomics, hazardous materials management, environmental protection, training, accident and incident, investigations, advising management, record keeping, emergency response, managing safety programs, product safety and/or security.

Training Methodology

All our Courses are including **Hands-on Practical Sessions** using equipment, State-ofthe-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\$ 6,000 per Delegate. 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.



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Eligibility: -

<u>Academic Requirement:-</u>

All individuals applying for the ASP must have a bachelor's degree or higher in any field from an accredited institution; or an associate in safety, health, or the environment. The associate degree must include at least four courses with at least 12 semester hours/18 quarter hours of study in the safety, health, or environmental domains covered in the ASP and CSP examination blueprints.

• Experience Requirement:-

ASP candidates must have one-year professional safety experience to sit for the ASP exam. Professional safety experience must meet the following criteria to qualify:-

- * Professional safety must be the primary function of the position. Collateral duties in safety are not counted.
- * The position's primary responsibility must be the prevention of harm to people, property, or the environment, rather than responsibility for responding to harmful events.
- * Professional safety functions must be at least 50% of the position duties. BCSP defines full-time as at least 35 hours per week. Part-time safety experience is allowed if the applicant has the equivalent of at least 900 hours of professional safety work during any year (75 hours per month or 18 hours per week) for which experience credit is sought.
- * The position must be at a professional level. This is determined by evaluating the degree of professional charge by which there is a reliance of employees, employers or clients on the person's ability to identify, evaluate and control hazards through engineering and/or administrative approaches.
- * The position must have breadth of professional safety duties. This is determined by evaluating the variety of hazards about which the candidate must advise and the range of skills involved in recognizing, evaluating, and controlling hazards.

Required Calculator Model:-

The candidate is allowed to bring one or two calculators into the secure testing room as long as they both are among the brands and models listed:-

- Casio models FX-115, -250, -260 or -300
- Hewlett Packard models HP 9, 10, 12 or 30
- Texas Instruments models TI-30, -34, -35 or -36
- Different versions of the above models will be permitted. For example, the HP-30S and TI- 30X calculators will be permitted, as they are versions of these models. If the candidate does not have one of the approved calculators, he or she should use the online calculator that is part of the exam. Test centers do not provide calculators or allow candidates to bring in non-approved models.



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Course Certificate(s)

Internationally recognized certificates will be issued to all participants of the course who completed a minimum of 80% of the total tuition hours.

Certificate Accreditations

Certificates are accredited by the following international accreditation organizations: -

• ACCREDITED PROVIDER

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.

• *** * BA

BAC 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.



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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. John Taljard is an International Health, Safety & Environment (HSE) Expert within Oil, Gas and Petrochemical industries. His expertise includes Accident/Incident Investigation & Risk Management, Risk Assessment within Production Operation, Hazard Identification, Quantified Risk Assessment, Process Hazard Analysis (PHA), Construction Safety (STOP), Process Safety Management, HAZOP Studies & Leadership, FMEA, Waste Management, Industrial Effluents, Hazardous Material, Chemical Handling, Firefighting, Emergency Response Services, **HAZCOM**, HAZWOPER and **HAZMAT** with over **30 years** of practical experience in the **process** industry. His wide experience also includes Environmental Management (ISO 14001), Safety Management (OHSAS 18001), Quality Management (ISO 9001). He is the Founder of ISTEC, an international health & safety management and consultancy company where he is greatly involved in the development and implementation of SHEQ standards & procedures, HAZOP Studies, HAZOP Leadership, FMEA, **PHA**, operational safety guidelines, inspections & auditing techniques.

While Mr. Taljard has been very active in the process industry for almost three decades, he has likewise headed Consultancy projects for major petrochemical, aviation, engineering & construction, mining & chemical industries. In all his projects, he utilizes a systems approach which includes **risk management**, **process safety**, health & environmental management, human behaviour and quality management. Furthermore, he has come to share his expertise through the numerous international trainings he has held on PHA, HAZOP, Risk Assessment, Handling Hazardous Materials & Chemicals, Petroleum Products Handling & Transportation, Fire Fighting & Fire Rescue, Safety Auditing, Hazard Identification & Site Inspection and Accident Investigation for several significant clientele among these are ARAMCO, SABIC, ZADCO, ORPC, KOTC, and AADC. Moreover, he completed various assignments as a consultant, trainer, facilitator, auditor & designer and conducted numerous licensed international Safety, Technology and Auditing Awareness & Implementing training courses including IMS, ISO 9001, ISO 14001, ISO 27001, ISO 17799, OHSAS 18001 audits & assessments. With his accomplishments and achievements, he had been a Safety Superintendent, Senior Safety Official and Senior Process Controller for several international petrochemical companies.



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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:

	Domain 1: Mathematics (1 Day)
	Chemistry & Industrial Hygiene Calculations
	Knowledge of:
Topic 1	1. Corrosives
10pic 1	2. Flammables
	3. Toxic Materials
	4. Chemical Reactions
	Mathematics: Electrical Calculations
Topic 2	Knowledge of:
	1. Power, Impedance, Energy & Resistance
	2. Arc Flash
	3. Circuits
	Radiation Calculations
т : э	Knowledge of:
Торіс З	1. Decay
	2. Half-life
	5. Source Strength
	Structural & Mechanical Calculations
Topic 4	Knowledge of: 1. Loading & Storage Canacity
,	2. Rigging & Logd
	2. Rigging & Loui
	Engineering Control Culculations
	1 Ventilation & Sustem Design
Tonic 5	2 Fire Sumression & Sustem Design
10pic 5	3 Noise
	4 Climate Conditions (e & WBGT Wind Chill Heat Stress)
	5. Fall Protection
	Physics Calculations
	Knowledge of:
	1. Movement (e.g., Acceleration, Velocity, Momentum)
Торіс 6	2. Friction
	3. Kinetic & Potential Energy
	4. Gas Laws
	Financial Principles
	Knowledge of:
Tomic 7	1. Cost Benefit Analysis (e.g., Cost of Risk)
10pic 7	2. Life Cycle Cost
	3. Net Present Value
	4. Return on Investment
	Statistics
	Knowledge of:
Topic 8	1. Descriptive Statistics (e.g., Central Tendency, Variability)
10000	2. Correlational Statistics (e.g., Pearson's r, Spearman's rho)
	3. Inferential Statistics (e.g., Chi-Square, T-Test)
	4. Probability (e.g., Odds of Success, Poisson)



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	Performance Metrics & Indicators								
	Knowledge of:								
	1. Lagging Indicators (e.g., Incidence Rates, Lost Time, Direct Costs of Incidents)								
Topic 9	2. Leading Indicators (e.g., Inspection Frequency, Safety Interventions, Employee								
	Performance Evaluations, Training Frequency, Near Miss, Near Hit, & Close Call								
	Reporting)								
	3. Effects of Losses								
	Domain 2: Safety Management Systems (1 Day)								
	Risk Management & Hazard Control Process								
	Knowledge of:								
	1. Identification Methods								
Tomic 1	2. Risk Analysis & Examination								
10pic 1	3. Selection of Control Methods (e.g., Financial Justification, Hierarchy of Controls)								
	4. Implementation of Controls								
	5. Monitoring & Reevaluation								
	6. Risk Transfer (e.g., Insurance, Incident Management								
	Management Processes								
	Knowledge of:								
Topic 2	1. Emergency, Crisis, Disaster Response Planning, Business Continuity								
	2. Incident Investigation (e.g., Data Collection, Analysis)								
	3. Inspections & Audits								
	Project Management								
Tovic 3	Knowledge of:								
	1. Evaluation of Cost, Schedule, Performance & Risk								
	2. Assigning Responsibilities & Accountability								
	System Safety								
	Knowleage of:								
Topic 4	1. Risk Analysis Methods (e.g., Job Safety Analysis, Hazara & Operability Analysis,								
	Future Node & Effects Analysis, Fuuli Tree Analysis, Fishbone, What-If &								
	2 Process Safety Management								
	Fleet Safetu								
	Knowledge of:								
	1. Driver Behavior (e.g., Defensive Driving, Distracted Driving)								
Tovic 5	2. Vehicle Inspections								
	3. Safety Features (e.g., Restraint Systems, Automatic & Anti-Lock Braking								
	Systems)								
	4. Crash & Collision Investigation								
	Safety Programs								
	Knowledge of:								
	1. Hazard Communication & Globally Harmonized System								
	2. Workplace Violence								
	3. Control of Hazardous Energy								
Topic 6	4. Excavation, Trenching, & Shoring								
	5. Confined Space								
	6. Physical Security								
	7. Fall Protection								
	8. Wellness Programs								
	9. Substance Abuse								



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	Domain 3: Ergonomics (0.5 Day)
Topic 1	Human FactorsKnowledge of:1. Fitness for Duty2. Organizational, Behavioral & Psychological Influences3. Stressors4. Risk Factors (e.g., Repetition, Force, Posture, Vibration)5. Work Design6. Aging Workforce
Topic 2	Measurement & Monitoring Knowledge of: 1. Quantitative Methods (e.g., Anthropometry, NIOSH Lift Equation) 2. Qualitative Methods (e.g., Rapid Upper Limb Assessment (RULA), Rapid Entire Body Assessment (REBA))
Topic 3	 Controls Knowledge of: 1. Material Handling (e.g., Manual, Powered Equipment, Lifting Devices) 2. User-Centered Design 3. Human-Machine Interface 4. Work Practice Controls (e.g., Job Rotation, Work Hardening) 5. Written Plans, Procedures & Training
	Domain 4: Fire Prevention & Protection (0.5 Day)
Topic 1	Fire & Explosion HazardsKnowledge of:1. Chemical2. Electrical (e.g., Static Electricity, Surge)3. Natural Hazards (e.g., Lightning, Flooding, Drought)4. Structural (e.g., Combustible, Non-Combustible)5. Mechanical (e.g., Heat Generated by Friction)6. Hot Work (e.g., Welding, Cutting, Brazing)
Topic 2	 Fire Controls Knowledge of: 1. Fire Science (e.g., Combustible Dust Fire Pentagon, Fire Triangle, Fire Tetrahedron) 2. Detection 3. Suppression 4. Segregation & Separation (e.g., Flammable Materials Storage, Ventilation) 5. Housekeeping 6. Grounding & Bonding
Topic 3	 Fire & Emergency Management Knowledge of: 1. Written Plans, Procedures & Work Practices (e.g., Incident Command System, Fire Brigade) 2. Life Safety (e.g., Elements of Design)
	Domain 5: Occupational Health (0.5 Day)
Topic 1	Biological Hazards & Controls Knowledge of: 1. Sources (e.g., Viral, Bacterial, Parasitic, Fungus)
	Image: Weight with the second secon



	2. Exposure Assessment 3. Control Strategies									
	Chemical Hazards & Controls									
	Knowledge of									
	1 Sources (e o Assessment Control Strategies Symptoms Target Organs)									
	2. Exposure Limits (e.g., PELs, TLVs, STELs, RELs)									
Topic 2	3. Routes of Entry (e.g., Inhalation, Ingestion, Absorption, Injection)									
	4. Acute & Chronic Exposures									
	5. Incompatibilities & Reactivity of Agents									
	6. Nano-Technology									
	Physical Hazards & Controls									
	Knowledge of:									
Tomic 3	1. Noise									
10pic 5	2. Vibration									
	3. Radiation									
	4. Electrical									
Domain 6: Environmental Management (1 Day)										
	Environmental Hazards									
	Knowledge of:									
	1. Disaster Preparedness (e.g., Manmade, Natural)									
	2. Environmental Hazards Awareness (e.g., Biological (Mold), Chemical, Waste,									
Topic I	Vermin)									
	3. Remeatation									
	4. Vvater (e.g., Storm, Vvaste, Permitting) 5. Air (a.g. Quality, IAQ Darmitting)									
	5. All (e.g., Quality, IAQ, Fermitting) 6. Land & Conservation (e.g., Solid Waste Recucling, Sustainability)									
	Engineering Controls									
	Knowledge of:									
	1. Air Pollution									
	2. Segregation & Separation									
Taulad	3. Substitution & Selection of Alternative Design Strategies									
<i>1 opic 2</i>	4. Hazardous Materials Containment & Design									
	5. Water Pollution									
	6. Aboveground (AST) and Underground (UST) Storage Tanks									
	7. Ventilation (e.g. HVAC, Local Exhaust)									
	8. Land Pollution									
	Aaministrative Controls & Practices									
	Milowieuge oj: 1. Conservation (e.g. Reuse Recucle Reduce)									
	2 Housekeening									
Topic 3	3 Warning (e.g. Sions Sionals)									
	4. Written Plans. Procedures. Work Practices (e.g., Decontamination)									
	5. Environmental Management System Standards									
	6. Sustainability									
	Hazardous Waste Storage & Disposal									
	Knowledge of:									
Tonic 4	1. Transportation (e.g., Placarding, Manifesting)									
	2. Storage & Documentation									
	3. Spill Prevention, Containment & Response)									
	4. Waste Removal, Treatment & Disposal									



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	Domain 7: Training, Education & Communication (0.5 Day)
	Training & Education Methods
	Knowledge of:
	1. Adult Learning Theory & Techniques
Topic 1	2. Data Collection, Needs Analysis & Feedback
-	3. Behavior & Performance Modification
	4. Presentation Tools (e.g., Computer Based, Group Meeting)
	5. Assessing Competency
	Communication & Group Dynamics
	Knowledge of:
	1. Interpersonal Communication (e.g., Cross Generation)
Tomic ?	2. Methods of Facilitating Teams
10pic 2	3. Multidisciplinary Teamwork
	4. Negotiation Strategy
	5. Conflict Resolution
	6. Mentoring

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 7 days following the course completion. Each participant has only one trial for the MOCK exam within this 7-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.



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Simulator (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 our state-of-the-art "Workplace Risk Assessment", "BlackBox" and "QRA System" simulators.

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5.1 Does the workplace have suitable and sufficient lighting? (not obscured, for example by stacked goods) 5.2 So far as is reasonably practicable, is natural light used? (people generally prefer to work in natural light)				g? [Room Dir Floors ar Falls or F 	mensions / W nd Traffic Rou Falling Objec	/orkstation utes ts		
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5.3	5.3 Are all stairwells and walkways lit and without shadow? (shadows should not be cast on stair treads)				? [_	Drinking Accomod Facilities Safety No	Water / dation for Clo s Clothing / R otice Boards ,	thing est & to Eat / 1st Aid	Meals
5.4	5.4 Is emergency lighting required? If yes, is it provided? (where sudden loss of light would present a serious risk)					•					Work Equ Miscella Miscella	uipment / MH aneous Health aneous Health	i Operation h Hazards (p h Hazards (p	1))2)
5.5	5.5 Is all lighting equipment regularly cleaned and maintained? (also see section 2)			ſ	•					 Sign-off Notes 				
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