

COURSE OVERVIEW HE0749

<u>API-780: Security Risk Assessment Methodology for the Petroleum & Petrochemical Industries</u>

Course Title

API-780: Security Risk Assessment Methodology for the Petroleum & Petrochemical Industries

Course Date/Venue

September 22-26, 2024/Sarah Meeting Room, Al Bandar Rotana Dubai-Creek, Dubai, UAE

Course Reference

HE0749

Course Duration/Credits

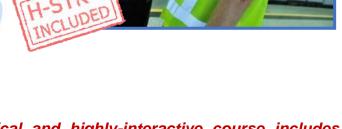
Five days/3.0 CEUs/30 PDHs

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.

API developed the security risk assessment (SRA) methodology (API 780 Standard) as a universal approach for assessing security risk at petroleum and petrochemical industries. The information contained herein has been developed in cooperation with government and industry and is intended to help oil and gas companies, petroleum refiners, pipeline operators, petrochemical manufacturers, and other segments of the petroleum industry or other similar industries maintain and strengthen their corporate security through a structured and standardized SRA methodology. This course contains a standard methodology and guidance for use including examples.

This course describes a methodology that can be applied to a broad range of assets and operations beyond the typical operating facilities of the industry. This includes other assets containing hazardous materials such as chemical, refining and petrochemical manufacturing operations, pipelines and transportation operations including truck, marine and rail. It also can be used at a wide variety of non-hydrocarbon types of assets and is applicable as a general purpose SRA methodology. The methodology is suitable for assisting with compliance to regulations, such as the U.S. Department of Homeland Security's Chemical Facility Antiterrorism Standards, 6 CFR Part 27.

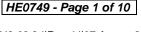




















Course Objectives

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

- Get certified as a "Certified Security Risk Assessor (SRA)"
- Define the terms, acronyms, abbreviations and symbols of security risk assessment
- Discuss general concepts of SRA covering security risk assessment and security management principles, risk definition for SRA and key variables, likelihood, consequences, threat, attractiveness and vulnerability
- Apply SRA approach including the concept and relationship to security risk management process, conducting and reviewing the SRA, validation and prioritization of risks and risk-based screening
- Employ proper planning in conducting SRA as well as gather, review and integrate information
- Identify the sources of information and the information needs
- Locate, collect and review required information
- Analyze previous incidents and conduct a site inspection
- Gather threat information using the various steps of API SRA
- Recognize forms and worksheets, SRA supporting data requirements and various examples of the SRA process

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**.

Who Should Attend

This course provides an overview of all significant aspects and considerations of security risk assessment for those who are involved in physical and cyber security, facility and process design and operations, safety, logistics, emergency response, management and other disciplines as necessary.

Accommodation

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

Course Fee

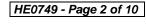
US\$ 5,500 per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.



















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. Successful candidate will be certified as a "Certified Security Risk Assessor (SRA)". Certificates are valid for 5 years.

Sample of Certificates

The following are samples of the certificates that will be awarded to course participants:-





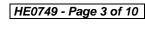




















(2) Official Transcript of Records will be provided to the successful delegates with the equivalent number of ANSI/IACET accredited Continuing Education Units (CEUs) earned during the course.























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 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 Burnip, EHS, SAC, STS, NEBOSH-ENV, NEBOSH-IGC, NEBOSH-IFC, NEBOSH-PSM, NEBOSH-IOG, TechIOSH, is a NEBOSH Approved Instructor and a Senior Security Consultant with over 50 years of practical Offshore & Onshore experience within Oil, Gas, Refinery, Petrochemical and Nuclear industries. His wide experience covers NEBOSH International General Certificate in Occupational Health & Safety, NEBOSH National Certificate in Construction Health & Safety, NEBOSH Certificate in Process Safety Management, NEBOSH Environmental Management Certificate, NEBOSH Certificate in Fire Safety, NEBOSH International Oil & Gas Certificate, Industrial Security & Asset Protection, Security Threat Identification, Risk Analysis & Evaluation, Security Planning & Design, Security Policy Development, Integrated Security Systems

Management, Safety & Loss Prevention, Security Engineering & Emergency Management Planning, Security Incident Management, Information Security & Confidentiality Management, Security Crisis Management, Strategic Security Management, Security Report Writing, Security Risk Management, Strategic Planning, Terrorism, Security Management, Security Risk Assessment, Physical Asset Protection, API 780 standards, HCIS New Security Directives & Process, Risk-Based Screening, Threat & Vulnerability Assessments, Residual Risks Calculation, Countermeasure Risk Scores Development, Advanced Intrusion Detection Systems, Perimeter & Building Barriers Design, Intellectual Property Protection, Interdependency & External Infrastructure Security, Quantitative Risk Assessments, Risk Registers Maintenance, Security Situation Reporting, Operating Access Control System, Security Operations Management, Security Investigations & Criminal Evidence, Security Risk Assessment, Supervising Security Operation Team, Industrial Security & Asset Protection, Security Threat Identification, Risk Analysis & Evaluation, PHA, HAZOP, HAZCOM, HAZMAT, HAZID, Hazard & Risk Assessment, Emergency Response Procedures Behavioural Based Safety (BBS), Confined Space Entry, Fall Protection, Emergency Response, H2S, Safety Management System (ISO 45001), Accident/Incident Investigation System and Report PSM, Risk Assessment, SCE FMEA Failure Investigations, Site Management Safety Training (SMSTS), IADC/API Mobile Drilling Rig Inspections, Maintenance and Audits, H2s Training and Rescue with Respiratory Equipment, Job Safety Analysis (JSA), Work Permit & First Aid, Project HSE Management System, Health & Hygiene Inspection, PTW Control, Process Modules Fire & Gas Commissioning, MSDS, Ergonomics, Lockout/Tagout, Fire Safety & Protection, Spill Prevention & Control, Tower & Scaffold Inspection, Offshore Operations, Offshore Construction, Basic Offshore Safety Induction & Emergency Training (BOSIET), Onshore Fabrication & Offshore Pipelaying & Hook-Up, Crane Inspection, Crane Operations, Oilfield Startup & Operation, Steel Fabrication, OSHA, ISO 9001, ISO 14001, OHSAS 18001 and IMO (SOLAS) Regulations. Mr. Burnip has greatly contributed in upholding the highest possible levels of safety for numerous International Oil & Gas projects, Generation Systems & Platform Revamp, LPG & Gas Compression, Marine, Offshore and Power Plant Construction. Currently, he is the HSE Advisor of Solvay wherein he is responsible in planning and implementation of the corporate safety program (OSHA codes).

During Mr. Burnip's long career life, he had successfully carried out numerous projects in Europe, North America. South America, Southeast Asia, Middle East and the North Sea. He had worked for Delta Offshore Group, Solvay Asia Pacific, Likpin Dubai, SADRA/DOT, ZADCO, McDermott International (USA, Qatar, Egypt, India, Oman, Dubai and Abu Dhabi), PDO, Shell, ARAMCO, Salman Field, Leman Offshore Gas Field, GEC, Harland & Wolff PLC Belfast in North Ireland, Howard Doris - Kishorn in Scotland, Westinghouse Electric in Brazil and South Korea and Chevron Oil in Scotland as the Commissioning Project Engineer, Project & Safety Engineer, Estimating Engineer, Security Engineer, Senior Instrument Engineer, Instrument Field Engineer, Lead Instrument Engineer, Instrument Engineer, Engineer, Emergency Response Training Manager, Security Manager, HSE Advisor, HSE Instructor, HSE Supervisor, Instrumentation Supervisor, Instrumentation Specialist, Project Coordinator, Crisis Communication & Emergency Response Specialist, Instrumentation Technician and Tank Farm Instrumentation Technician.

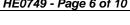
Mr. Burnip has a Bachelor's degree in Business Studies from the Somerset University (UK). He is a Certified/Registered Tutor in NEBOSH Certificate in Environmental Management, NEBOSH International General Certificate, NEBOSH International Certificate in Fire Safety & Risk Management, NEBOSH Process Safety Management Certificate and NEBOSH International Oil & Gas Certificate; a Certified Safety Auditor (SAC); a Certified ISO 45001 Auditor; an Environmental Health and Safety Management Specialist on Fall Protection, Elevated Structures, Material Handling, Trenching & Excavations; a Welding Brazing Safety Technician; a Certified Safety Administrator (CSA) - General Industry; a Safety Manager/Trainer - General Industry; a Petroleum Safety Manager (PSM) - Drilling & Servicing; a Petroleum Safety Specialist (PSS) - Drilling & Servicing; a Safety Planning Specialist; a Safety Training Specialist; a Certified Instructor/Trainer; a Certified Internal Verifier/Assessor/Trainer by the Institute of Leadership & Management (ILM) and further holds a Certificate in Mechanical Engineering Craft Practice from the City & Guilds of London Institute; a NEBOSH Level 3 Construction Certificate (UK); and holds a Cambridge Teaching Certificate. He is a well-regarded member of the National Association of Safety Professionals, the Association of Cost Engineers (UK), Institution of Occupational Safety & Health (TechIOSH) and an Associate Member of World Safety Organization. Further, he has conducted innumerable trainings, workshops and conferences worldwide.



















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 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, 22nd of September 2024

Day 1.	Sunday, 22 th of September 2024
0730 - 0800	Registration & Coffee
0800 - 0815	Welcome & Introduction
0815 - 0830	PRE-TEST
	Introduction
0830 - 0930	Scope • Sequential Activities • Normative References • Terms, Definitions,
	Acronyms, Abbreviations & Symbols
0930 - 0945	Break
	API-780 SRA Concepts
0945 - 1100	General • Security Risk Assessment & Security Management Principles • Risk
	Definitions for SRA & Key Variables
1100 - 1230	HCIS New Security, Directives & Process
1230 - 1245	Break
	API-780 SRA Concepts (cont'd)
1245 – 1420	Likelihood (L) • Consequences (C) • Threat (T)Attractiveness (A) •
	Vulnerability (V) ● Locating Required Information ● Information Collection &
	Review • Concept & Relationship to Security Risk Management Process
1420 - 1430	Recap
1430	Lunch & End of Day One

Day 2. Monday, 23rd of September 2024

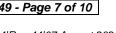
Day Z.	Monday, 25 of September 2024
0730 - 0930	API-780 SRA Approach (1) Validation & Prioritization of Risks Conducting & Reviewing the SRA
	, ,
0930 - 0945	Break
0945 – 1100	API-780 SRA Approach (1) (cont'd)
	Risk-based Screening • Planning for Conducting a SRA • SRA Team • SRA
	Objectives & Scope • Information Gathering, Review & Integration
1100 – 1230	API-780 SRA Approach (2)
	Sources of Information • Identifying Information Needs
1230 - 1245	Break
1245 - 1420	API-780 SRA Approach (2) (cont'd)
	Locating Required Information • Information Collection & Review
1420 – 1430	Recap
1430	Lunch & End of Day Two



















Day 3: Tuesday, 24th of September 2024

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0730 – 0930	API-780 Practical Hands on Real Exercise API-780 SRA Approach Characterization • Threat Assessment • Vulnerability Assessment • Risk Analysis/Ranking • Identify Countermeasures • Summary
	of Approach
0930 - 0945	Break
0945 – 1100	API-780 Forms & Worksheets Characterization Form • Threat Assessment Form • Attractiveness Form Vulnerability Analysis & Risk Assessment Form • Recommendation Form • Residual Risk Based on Implementation of All Proposed Countermeasures • Countermeasure Risk Score & Priority Form
1100 – 1230	Countermeasure Risk Score & Priority Form Checklist Access Control, Security Force, Intrusion Detection, Perimeter and Building Barriers, etc.
1230 - 1245	Break
1245 - 1420	Information, Computers, Network & Intellectual Property Security
1420 - 1430	Recap
1430	Lunch & End of Day Three

Day 4: Wednesday, 25th of September 2024

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0730 - 0930	Interdependency & External Infrastructure Checklists
0930 - 0945	Break
0945 - 1100	QRA Quantitative Risk Assessment Worked Real Onsite Case
1100 - 1230	QRA Quantitative Risk Assessment Worked Real Onsite Case (cont'd)
1230 - 1245	Break
1245 - 1420	Using Software to Collect & Update Risk Register
1420 - 1430	Recap
1430	Lunch & End of Day Four

Thursday, 26th of September 2024 Dav 5:

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0730 - 0930	Reviewing Worked Examples Against HCIS Requirements
0930 - 0945	Break
0945 - 1100	Setting the Road Map, Plan for Completing Comprehensive SRA
1100 - 1230	SRA Supporting Data Requirements, Meeting, Interviews, Etc.
1230 - 1245	Break
1245 - 1300	Security Situation Report & Recommendation for Capacity Build Up
1300 - 1315	Course Conclusion
1315 - 1415	COMPETENCY EXAM
1415 - 1430	Presentation of Course Certificates
1430	Lunch & End of Course













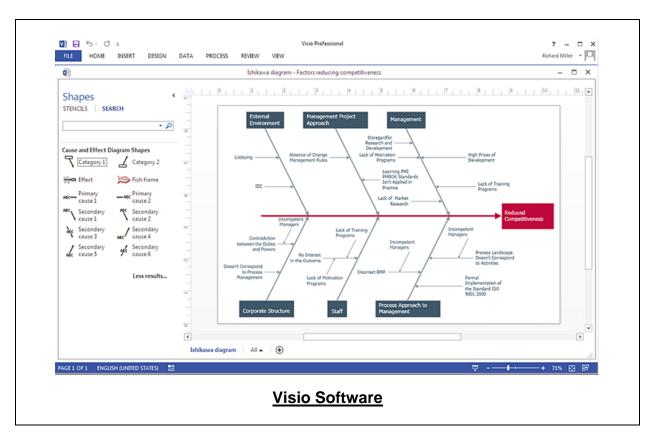


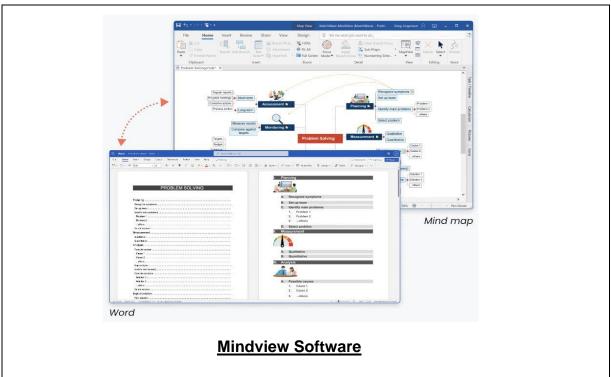




Simulators (Hands-on Practical Sessions)

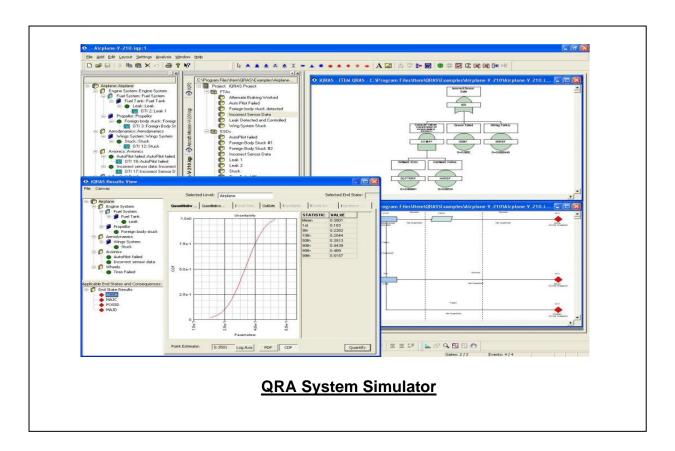
Practical sessions will be organized during the course for delegates to practice the theory learnt. Delegates will be provided with an opportunity to carryout various exercises using our state-of-the-art "Visio", "Mindview" and "QRA System" simulators.











<u>Course Coordinator</u>
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