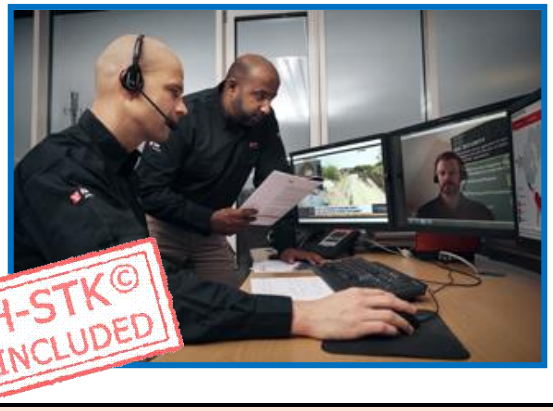
COURSE OVERVIEW HE0287
Security Threats & Physical Security Technology, Tools & Equipment (PSTTE) Including X-Ray Operation & Safety

Course Title
Security Threats & Physical Security Technology, Tools & Equipment (PSTTE) Including X-Ray Operation & Safety



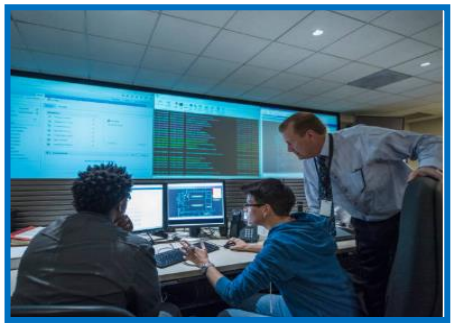
Course Reference
HE0287

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

Course Date/Venue

Session(s)	Date	Venue
1	May 11-15, 2025	Meeting Plus 9, City Centre Rotana, Doha Qatar
2	September 07-11, 2025	Boardroom 1, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE
3	November 02-06, 2025	Safir Meeting Room, Divan Istanbul, Turkey
4	December 14-18, 2025	Olivine Meeting Room, Fairmont Nile City, Cairo, Egypt

Course Description



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 security threats and physical security technology, tools and equipment (PSTTE) including x-ray operation and safety. It covers the asset, security threat types, causes, sources and affecting factors; the threat analysis methods, consequences analysis criteria, methodologies, documentation and graphical and tabular representations of data; and the recommendations including summary of assessment outcomes and contingency planning.

Further, this course will also discuss the applicable standards, techniques and processes, legislations, regulations and confidentiality policies; the use of security equipment allotted; the metal detectors, control stations, CCTV systems, intrusion detection systems, x-ray equipment and biological effects of ionizing radiation; the principles of radiation protection and the international framework; the protection against occupational radiation exposure; and the methods of protection and the safe use of radiation sources, individual and workplace monitoring.

During this interactive course, participants will learn to asses the medical exposures in diagnostic radiology; utilize and apply physical security equipment in accordance to manufactures specifications to achieve the desired results; safeguard PSTTE from misuse, malpractice and fraudulent dissemination; assign duties and follow up implementation for distribution; check security tools, equipment and accessories; barricade and watch site as needed and similar duties; inspect security vehicles, equipment and communication sets; audit security equipment on a routine basis; furnish reports on damages equipment for procurement; coordinate routine equipment maintenance with subcontractor; report faulty equipment to contracting organization for repairs and monitor all work orders; maintain record of equipment per site location; distribute, assign radio and other equipment to junior staff; respond to system warnings in a timely manner to resolve security breaches; manage PSTTE inventory; and act within the law, organization policy and procedures including personnel practices and guidelines.

Course Objectives

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

- Apply and gain an in-depth knowledge on security threats and physical security technology, tools and equipment (PSTTE) including x-ray operation and safety
- Identify asset, security threat types, causes, sources and affecting factors
- Illustrate threat analysis methods, consequences analysis criteria and methodologies, documentation, graphical and tabular representations of data
- Prepare recommendations including summary of assessment outcomes and contingency planning
- Recognize the applicable standards, techniques and processes, legislations, regulations and confidentiality policies
- Use security equipment allotted, identify metal detectors and access control stations
- Identify CCTV systems, intrusion detection systems, x-ray equipment and biological effects of ionizing radiation
- Explain the principles of radiation protection and the international framework
- Employ protection against occupational radiation exposure, methods of protection and the safe use of radiation sources, individual and workplace monitoring
- Assess the medical exposures in diagnostic radiology as well as utilize and apply physical security equipment in accordance to manufactures specifications to achieve the desired results
- Safeguard PSTTE from misuse, malpractice and fraudulent dissemination
- Assign duties and follow up implementation for distribution, check security tools, equipment and accessories as well as barricade and watch site as needed and similar duties
- Inspect security vehicles, equipment and communication sets
- Audit security equipment on a routine basis and furnish reports on damages equipment for procurement

- Coordinate routine equipment maintenance with subcontractor, report faulty equipment to contracting organization for repairs and monitor all work orders
- Maintain a record of equipment per site location as well as distribute, assign radio and other equipment to junior staff
- Respond to system warnings in a timely manner to resolve security breaches and manage PSTTE inventory
- Act within the law, organization policy and procedures including personnel practices and guidelines

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 security threats and physical security technology, tools and equipment (PSTTE) including x-ray operation and safety for security managers, chief security officers, senior security officers, security officers, lead security men, RPO's and staff.

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

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

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:

- 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.

- 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. Paul Hagarty, MSc, BSc, is an **International Expert** in **Safety & Security** with over **35 years** of practical and industrial experience. His expertise includes **Safety Auditing**, **Hazard Identification** & Site **Inspection**, **HAZMAT**, **HAZCOM**, **HAZWOPER**, **Emergency Response Management**, **Risk Assessment**, Occupational Health, Safety and Environment (**OHSE**), **Human Factors Engineering**, **Industrial Hygiene**, **Environmental Management** and **PPE**, **Confined Space Safety**, **Gas Testing**, **Strategic Planning**, **Terrorism**, **Security Management**, **Security Risk Assessment**, **Operating Access Control System**, **Security Operations Management**, **Security** Investigations & Criminal Evidence, **Security Risk Assessment**, Supervising **Security** Operation Team, Industrial **Security** & Asset Protection, **Accident Investigation** and Reporting, Infection Control, **Emergency Preparedness**, **First Aid & CPR**, **Environmental Awareness**, **Radiation Protection**, **NORM**, Asbestos, **Chemical Spills**, Safety Precautions & Response Action, Environmental Spill Incident Report and **Environmental Auditing**. Further, he is well-versed in **Industrial Toxicology**, **Industrial Noise Management**, **RCRA**, Air Quality Management, Water Quality Management, **Industrial Hygiene Measurements**, Respiratory Protection, Air Force Training, **Environmental Management Systems Auditing**, **Radiological Hazards**, Environmental Quality Sampling, **Hazard Analysis & Control**, Medical Nuclear, Biological, & Chemical Operations, Storm-water Compliance, **Ergonomics**, DHS Nuclear/Radiological Hazardous Materials, Bioenvironmental Engineering, Waste and Waste Water, Aero-Medical Operations, **Risk Assessments** and Job Safety Analysis (**JSA**).

Mr. Hagarty is currently the **Aerospace Medicine Squadron Superintendent** of the **US Air Force**, **USA** wherein his responsibilities includes **Emergency Management**, Project Management, Human Health Risk Assessment, Food Risk Analysis, International Environmental Policy, Technical Accounting, Production Operations and Vulnerability/Threat Assessment, Stress Management, Military Hospital Management, Joint Logistics Concept (**JLC**), Integrated Contingency Planning (**ICP**) and Laboratory Environmental Analysis.

With his accomplishments and achievements, he had been the **HSE Manager** (NATO, Germany), **Aero Medical Coordinator** (NATO, ISAF), **Non-Commission Officer In-Charge** (**AFIOH**, **USA**), **Industrial Hygiene Measurements Course Supervisor** (US Air Force, USA), **Bioenvironmental Engineering Flight Officer in Charge** (Prince Sultan Air Base, KSA), **Environmental Management & Industrial Hygiene Officer in Charge** (US Air Force, USA), **Industrial Hygiene Officer in Charge** (US Air Force, Korea), **Special Project Manager** (**USA Air Force**), **Bioenvironmental Engineering Specialist** (US Air Force, Germany) as well as the **Environmental Protection Specialist**, **Lead Inspector/Assessor**, **Cross-Connection Control Specialist**, **German Health & Safety Representative**, **Hazardous Materials Emergency Responder** and **Incident Commander**.

Mr. Hagarty has a **Master's** degree in **Environmental, Safety & Health Management** from the **University of Findlay** (**USA**) and a **Bachelor's** degree in **Occupational Education** from the **Wayland Baptist University** (**USA**). Further, he has completed **Associate of Applied Science** in **Military Science & Technology** and **Bioenvironmental Engineering** from the **Community College of the Air Force** (**USA**) as well as **General Studies** from the **University of Maryland** (**USA**). Moreover, he is a **Certified Instructor/Trainer** and delivered numerous trainings, seminars, courses, workshops and conferences internationally and received numerous **military awards** including the **NATO** Allied Command Operations Bioenvironmental Engineering.

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	***Asset Identification & Background Assessment***
0930 – 0945	*Break*
0945 – 1100	***Security Threat Types, Causes, Sources & Affecting Factors***
1100 – 1230	***Threat Analysis Methods***
1230 – 1245	*Break*
1245 – 1300	***Consequence Analysis Criteria & Methodologies***
1300 – 1330	***Documentation, Graphical & Tabular Representations of Data***
1330 – 1400	***Preparing Recommendations Including Summary of Assessment Outcomes***
1400 – 1420	***Contingency Planning***
1420 – 1430	***Recap***
1430	*Lunch & End of Day One*

Day 2

0730 – 0830	***Applicable Standards, Techniques & Processes, Legislations, Regulations & Confidentiality Policies***
0830 – 0930	***The Purpose & How to Use Security Equipment Allotted***
0930 – 0945	*Break*
0945 – 1100	***Metal Detectors & Access Control Stations***
1100 – 1230	***CCTV Systems & Intrusion Detection Systems***
1230 – 1245	*Break*
1245 – 1330	***X-Ray Equipment***
1330 – 1420	***Biological Effects of Ionizing Radiation***
1420 – 1430	***Recap***
1430	*Lunch & End of Day Two*

Day 3

0730 – 0830	***Principles of Radiation Protection & the International Framework***
0830 – 0930	***Protection Against Occupational Radiation Exposure***
0930 – 0945	*Break*
0945 – 1100	***Methods of Protection & the Safe Use of Radiation Sources***
1100 – 1230	***Individual & Workplace Monitoring***
1230 – 1245	*Break*
1245 – 1330	***Medical Exposures in Diagnostic Radiology***
1330 – 1420	***Utilizing & Applying Physical Security Equipment in Accordance to Manufactures Specifications to Achieve the Desired Results***
1420 – 1430	***Recap***
1430	*Lunch & End of Day Three*

Day 4

0730 – 0830	***Safeguarding PSTTE from Misuse, Malpractice, & Fraudulent Dissemination***
0830 – 0930	***Assigning Duties & Follow Up Implementation for Distribution/Checking of Security Tools, Equipment & Accessories, Barricading & Watching Site as Needed, & Similar Duties***
0930 – 0945	*Break*
0945 – 1100	***Inspecting of Security Vehicles, Equipment & Communication Sets***
1100 – 1230	***Auditing Security Equipment(s) on a Routine Basis***
1230 – 1245	*Break*
1245 – 1330	***Furnishes Reports on Damaged Equipment for Procurement***
1330 – 1420	***Coordinating on Routine Equipment Maintenance with Subcontractor***
1420 – 1430	***Recap***
1430	*Lunch & End of Day Four*

Day 5

0730 – 0830	***Reports Faulty Equipment to Contracting Organization for Repairs & Monitors All Work Orders***
0830 – 0930	***Maintaining a Record of Equipment per Site Location***
0930 – 0945	*Break*
0945 – 1100	***Distributes & Assigns Radio & Other Equipment to Junior Staff***
1100 – 1230	***Responding to System Warnings in a Timely Manner to Resolve Security Breaches***
1230 – 1245	*Break*
1245 – 1300	***Managing PSTTE Inventory***
1300 – 1345	***Acting within the Law & Organizational Policy & Procedures Including, Personnel Practices & Guidelines***
1345 – 1400	***Course Conclusion***
1400 – 1415	***POST-TEST***
1415 – 1430	*Presentation of Course Certificates*
1430	*Lunch & End of Course*

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