

COURSE OVERVIEW HE0288-4D
Security Screening Qualified X-Ray Operator & RPO

Course Title

Security Screening Qualified X-Ray Operator and RPO

Course Date/Venue

October 07-10, 2024/Fujairah Meeting Room, Grand Millennium Al Wahda Hotel, Abu Dhabi, UAE

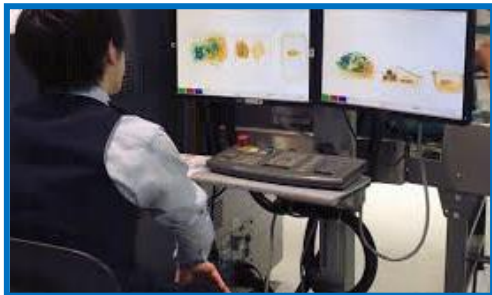
Course Reference

HE0288-4D

Course Duration/Credits

Four days/2.4 CEUs/24 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.

This course is designed to provide participants with a detailed and up-to-date overview on security screening. It covers the fundamentals, sources of radiation, quantities, measurements and units; the biological effects of ionizing radiation; the principles of radiation protection; the international framework covering the role of international organizations in radiation protection and development of safety culture; and the regulatory control and system.

During this interactive course, participants will learn the protection against occupational exposure including organization and management; the systematic methods of protection and safe use of radiation sources and optimization; the individual and workplace monitoring; and the medical exposures in diagnostic radiology covering scope and responsibilities, quality assurance and accidental exposures.



Course Objectives

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

- Apply and gain a comprehensive knowledge on security screening qualified x-ray operator and RPO
- Review fundamentals, sources of radiation, quantities, measurements and units
- Identify the biological effects of ionizing radiation
- Recognize the principles of radiation protection and the international framework covering the role of international organizations in radiation protection and development of safety culture
- Manage regulatory control and system
- Apply protection against occupational exposure including organization and management
- Perform systematic methods of protection and safe use of radiation sources and optimization
- Employ individual and workplace monitoring
- Determine medical exposures in diagnostic radiology covering scope and responsibilities, quality assurance and accidental exposures

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 security screening qualified x-ray for security managers and security officers operators and RPO.

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 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: -

(Below are the lists of Normal Accreditation)


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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 **2.4 CEUs** (Continuing Education Units) or **24 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.

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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. Tony Bunce, PgDip, BSc, RPA, CMIOSH, CRadP, NEBOSH, is an **Accredited Radiation Protection Adviser (RPA)** and a **Senior Environmental Consultant** with over **20 years** of extensive experience in **Radiation Safety & Protection, Radioactive Waste Management, Radiation Protection Instrumentation, Nuclear & Radiological Safety, Nuclear Engineering, Safety Management System, Uranium & Plutonium Safe Handling, Contamination Control, Radiation Protection Design, Risk Assessment, Personal Protection Equipment, HAZOP & HAZAN Analysis, ALARP System, Dosimetry Review, Nuclear Weapon & Nuclear Reactor Accident Procedures, Personal Protective Equipment, Machinery & Work Equipment and Manual Handling**. Further, he is also well-versed in **ISO 14001:2004** (Environmental Management System), **AERMOD** Modeling, **Incident Reporting & Investigation**, Cause Tree Analysis (**CTA**), Fault Tree Analysis (**FTA**), **HSE** Emergency Planning, Crisis Management, **HSSE** Practices, Emergency Response Plans and Emergency Preparedness. He is currently the **Radiation Protection Advisor** of **IAEA (Austria)** wherein his in-charge of the design and commissioning of IAEA's new Nuclear Material Laboratory.

During Mr. Tony's career life, he held significant positions such as the **Radiation Protection Advisor, Radiation Protection Officer, Safety Adviser, Radiation Monitoring Specialist, Lead Safety Adviser** and **Health Physics Monitor** for international companies and agencies such as the International Atomic Energy Agency (**IAEA**), **Thorp Nuclear Processing Plant** and the **Nuclear Department of UK** just to name a few.

Mr. Bunce has a **Post Graduate Diploma** in **Radiation and Environmental Protection** from the **University of Surrey** and a **Bachelor** degree in **Environmental Risk Management** from the **University of Wales Institute Cardiff** in **UK** respectively. Further, he is a **Certified Instructor/Trainer**, a **Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership & Management (ILM)**, an **Accredited Radiation Protection Adviser (RPA)** from the **RPA 2000 Board**, a **Qualified Radiological Protection Reviewer**, a Chartered Member of **IOSH (CMIOSH)**, a Chartered Radiological Protection Practitioner (**CRadP**), **Certified Radiation Safety Practice (Stage 1)** from **City and Guilds** and **NEBOSH Diploma** holder. He has further delivered numerous trainings, conferences, workshops and seminars globally.

Course Fee

US\$ 4,500 per Delegate + **VAT**. This rate includes **H-STK®** (Howard 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.





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: Monday, 07th of October 2024

0730 – 0800	Registration & Coffee
0800 – 0815	Welcome & Introduction
0815 – 0830	PRE-TEST
0830 – 0930	Review of Fundamentals Introduction
0930 – 0945	Break
0945 – 1100	Review of Fundamentals (cont'd) Sources of Radiation
1100 – 1230	Quantities & Measurements Quantities and Units
1200 – 1245	Break
1245 – 1420	Biological Effects of Ionizing Radiation Effects of Radiation
1420 – 1430	Recap
1430	End of Day One

Day 2: Tuesday, 08th of October 2024

0730 – 0930	Biological Effects of Ionizing Radiation (cont'd) Effects of Radiation
0930 – 0945	Break
0945 – 1100	Principles of Radiation Protection & the International Framework The Role of International Organizations in Radiation Protection
1100 – 1230	Principles of Radiation Protection & the International Framework (cont'd) The Development of Safety Culture
1200 – 1245	Break
1245 – 1420	Regulatory Control Regulatory System
1420 – 1430	Recap
1430	End of Day Two

Day 3: Wednesday, 09th of October 2024

0730 – 0930	Regulatory Control (cont'd) Regulatory System (cont'd)
0930 – 0945	Break
0945 – 1100	Protection Against Occupational Exposure Organization and Management
1100 – 1230	Protection Against Occupational Exposure (cont'd) Methods of Protection and the Safe Use of Radiation Sources; Optimization
1200 – 1245	Break
1245 – 1420	Protection Against Occupational Exposure (cont'd) Individual and Workplace Monitoring
1420 – 1430	Recap
1430	End of Day Three

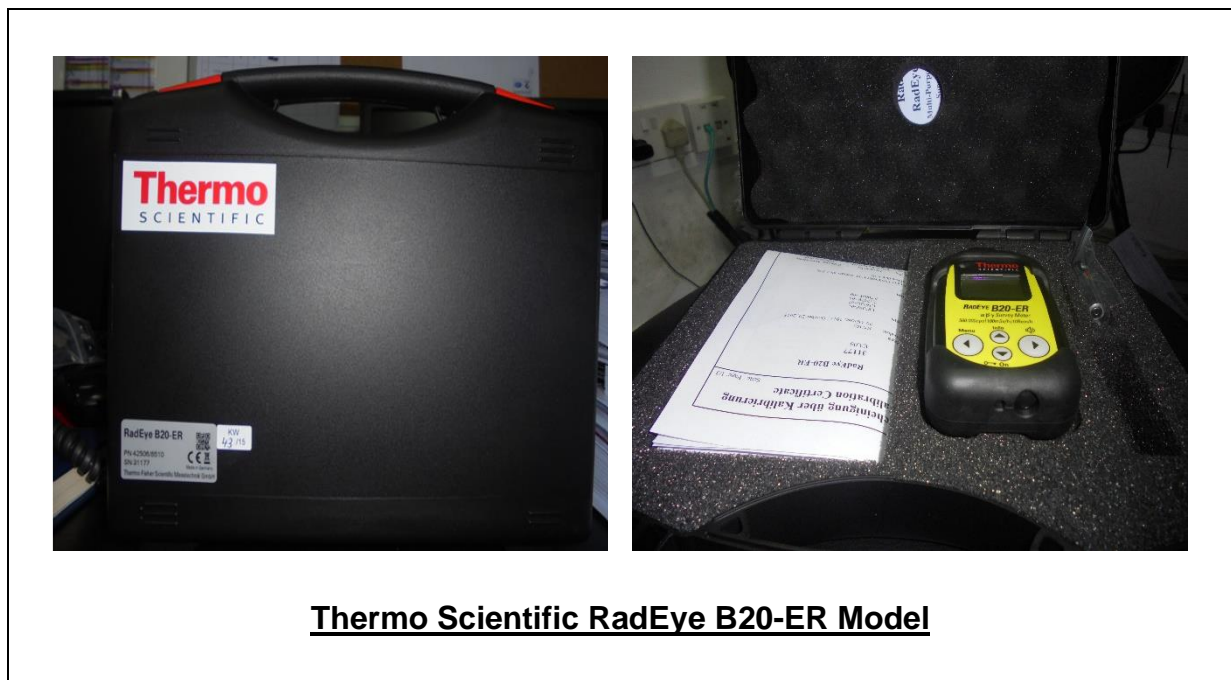


Day 4: Thursday, 10th of October 2024

0730 – 0930	<i>Medical Exposures in Diagnostic Radiology Scope and Responsibilities</i>
0930 – 0945	<i>Break</i>
0945 – 1100	<i>Medical Exposures in Diagnostic Radiology (cont'd) Quality Assurance</i>
1100 – 1230	<i>Medical Exposures in Diagnostic Radiology (cont'd) Accidental Exposures</i>
1200 – 1245	<i>Break</i>
1245 – 1345	<i>Medical Exposures in Diagnostic Radiology (cont'd) Accidental Exposures (cont'd)</i>
1345 – 1400	<i>Course Conclusion</i>
1400 – 1415	<i>POST-TEST</i>
1415 – 1430	<i>Presentation of Course Certificates</i>
1430	<i>End of Course</i>

Instruments (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 instrument “RadEye B20-ER” model.



Course Coordinator

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