COURSE OVERVIEW HE0581-3D
Certified Radiation Protection Officer (RPO)
In-line with the Requirements of the Federal Authority for Nuclear Regulation (FANR)

Course Title
Certified Radiation Protection Officer (RPO): *In-line with the Requirements of the Federal Authority for Nuclear Regulation (FANR)*



Course Date/Venue
November 16-18, 2026/TBA Meeting Room, Royal Rose Hotel Abu Dhabi, Curio Collection by Hilton, Abu Dhabi, UAE

1.8 CEUs (18 PDHs) AWARD

Course Reference
HE0581-3D

Course Duration/Credits
Three days/1.8 CEUs/18 PDHs

Course Description







This practical and highly-interactive course includes practical sessions and exercises where participants carryout surface contamination and dose rate measurements and surveys. Theory learnt in the class will be applied using our state-of-the-art equipment.

This course is designed to provide delegates with a detailed and up-to-date overview of radiation protection officer/qualified expert in accordance with the Federal Authority for Nuclear Regulations (FANR). It covers the fundamentals review; the quantities and measurements; the biological effects of ionizing radiation; the principles of radiation protection and the international framework; and the regulatory control.

Further, the course will also cover the assessment of external and internal exposures; the protection against occupational exposure; the medical exposures in diagnostic radiology, radiotherapy and nuclear medicine; the exposure of the public owing to practices; the intervention in situations of chronic and emergency exposure; and training the trainers.

The course includes a comprehensive e-book entitled "*An Introduction to Radiation Protection*", published by CRC Press, which will be given to the participants to help them appreciate the principles presented in the course.

Course Objectives/Outcomes & Benefits for the Participants

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

- Get certified as a *"Certified Radiation Protection Officer"*
- Review the fundamentals of physics and mathematics used in radiation protection, interaction of radiation with matter and sources of radiation
- Identify the quantities and measurements as well as the biological effects of ionizing radiation
- Discuss the principles of radiation protection and the international framework covering the conceptual framework, role of international organizations in radiation protection and the development of safety culture
- Apply regulatory control including the legal framework for radiation protection and the safe use of radiation sources, regulatory system and assessment of the effectiveness of the regulatory programmes
- Assess external and internal exposures of radiation due to external sources of radiation and radionuclides and use proper protection against occupational exposure
- Explain medical exposures in diagnostic radiology, radiotherapy and nuclear medicine including the scope and responsibilities, justification of medical exposures, optimization of protection for medical exposures, quality assurance and accidental exposures in medical applications
- Describe exposure of the public owing to practices, intervention in situations of chronic and emergency exposure
- Assess the training needs, presenting how to be a lecturer and setting up a training course

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 radiation protection for those who are willing to be a Radiation Protection Officer (RPO) such as safety officers, supervisors, engineers, inspectors, X-Ray technicians and other technical and medical staff.

Course Fee

US$ 3,750 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 Radiation Protection Officer*". Certificates are valid for 5 years.

Recertification is FOC for a Lifetime.

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.



Haward Technology Middle East

Continuing Professional Development (HTME-CPD)

CEU Official Transcript of Records

TOR Issuance Date: 12-Nov-24

HTME No. 74851

Participant Name: Waleed Al Habeeb

Program Ref.	Program Title	Program Date	No. of Contact Hours	CEU's
HE0581-3D	Certified Radiation Protection Officer (RPO) *In-line with the Requirements of the Federal Authority for Nuclear Regulation (FANR)*	Nov 10-12, 2024	18	1.8

Total No. of CEU's Earned as of TOR Issuance Date **1.8**

TRUE COPY

Jaryl Castillo
Academic Director

Haward Technology has been approved as an Accredited Provider by the International Association for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this approval, Haward Technology has demonstrated that it complies with the ANSI/IACET 1-2018 Standard which is widely recognized as the standard of good practice internationally. As a result of their Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for programs that qualify under the ANSI/IACET 1-2018 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 Association 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 is accredited by

P.O. Box 26070, Abu Dhabi, United Arab Emirates | Tel.: +971 2 3091 714 | E-mail: info@haward.org | Website: www.haward.org

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 **1.8 CEUs** (Continuing Education Units) or **18 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. Saad Bedir, BSc, NEBOSH-IGC, NEBOSH-ENV, is a **Senior Fire**, **Health**, **Safety & Environment** (**HSE**) **Consultant** with over **30 years** of extensive experience in the **Power**, **Petrochemical** and **Oil & Gas** industries. He is a **NEBOSH Approved Instructor** for various certification programs. He is well-versed in the areas of **NEBOSH** International General Certificate, **NEBOSH** Certificate in Environmental Management, **Radiation Safety & Protection**, **Radiation Physics**, **Nuclear Medicine**, **Radiation Oncology**, **Radiotherapy**, **Digital Image Protection**, **Operational Radiation Protection**, Health, **Fire**, Safety, Security & Environmental Codes of Practice, Legislations and Procedures, **Active** and **Positive Fire Fighting**, **Fire & Gas Detection Systems**, **Fire Fighting Systems**, **Fire Proofing**, **ESD**, Escape Routes, Mobile Crane Operation, Heavy Lifting Equipment, Scaffolding, Rigging Slinging, the implementation of **OHSAS 18001**, **ISO 9001**, **ISO 14001**, **QHSE** Management Planning, Crisis & Business Continuity Management Planning, **Emergency Response & Procedures**, Industrial Security Risk Assessment & Management, Environmental Impact Assessment (**EIA**), **Behavioural Safety**, **Occupation Safety**, **Incident & Accident Investigation**, Integrated EHS Aspects, Risk Assessment & Hazard Identification, Environmental Audits, **Chemical Handling**, Hazardous & Non-Hazardous Waste Management, Confined Space Safety, **SHEMS** Principles, Process Safety, Basic & Advanced Construction Safety, **Mobile Crane Operations**, **Rig & Barge Inspection**, **Lifting & Slinging**, **Scaffolding**, Air Quality Management, Safety & Occupational Health Awareness, Loss Control , Marine Pollution Hazards & Control, Ground Contamination & Reclamation Processes, Waste Management & Recycling, Clean Energy & Power Saving, **FMEA**, **HAZMAT**/**HAZCOM**, **HAZOP**, **HAZWOPER**, **HAZID**, **HSEIA**, **QRA**, Hazardous Area Classification and **Radiation Protection**. Presently, he is the **HSE Director** for one of the largest and renowned companies in the Middle East, wherein he takes charge of all HSE and security operations of the company.

Mr. Saad's vast professional experience in directing and managing health, safety and the environment aspects as per **OSHA framework** and guidelines can be traced back to his stint with a few international companies like **Saudi ARAMCO**, **CONOCO**, **Kuwait Oil Co.** (**KOC**), where he worked as the Field HSE Senior Engineer handling major projects and activities related to the discipline. Through these, Saad gained much experience and knowledge in the implementation and maintenance of international safety standards such as the National Fire Protection Association (**NFPA**), the American Petroleum Institute (**API**), Safety of Life at Sea (**SOLAS**) and Safety for Mobile Offshore Drilling Unit (**MODU**).

Mr. Saad has **NEBOSH** certificate which includes health & safety measures including:

- Fire fighting management system
- Rescue mechanisms (Escaping routes, Rope rescue, and emergency evacuation Plan)
- Machinery Safety requirement
- Occupational health measures & requirement

Mr. Saad has a **Bachelor** degree in **Chemistry**. Further, he is a **Certified Instructor/Trainer**, an **Approved Tutor** in **NEBOSH International General Certificate**, an **Approved Tutor** in **NEBOSH Certificate** in **Environmental Management**, a **Certified Lead Auditor** for **OHSAS 18001**, **ISO 9001**, **ISO 14001** and a **member** of the **Egyptian Syndicate** & **Scientific Professions**. His passion for development and acquiring new skills and knowledge has taken him all over the Middle East to attend and share his expertise in numerous trainings and workshops.

Training Methodology

Our courses employ an interactive, learner-centred methodology that integrates theoretical knowledge with practical application. The training is delivered through a suitable combination of some or all of the following methods, selected according to the course content and learning objectives:

- Instructor-led presentations and facilitated discussions
- Practical workshops and participant presentations
- Hands-on exercises and real-world case studies
- Equipment demonstrations and technical drawings
- Hardware- and software-based simulations
- Gamification & Role Play in soft-skills courses only
- Virtual Reality (VR) and Augmented Reality (AR)
- Instructional videos and other relevant training resources

This blended approach encourages active participation, strengthens practical skills and supports the effective application of acquired knowledge in the workplace.

Learning Design & Customization

This course can be customized to the exact requirements of clients. Haward Technology is so proud of our huge capabilities in tailoring our courses to the training needs of our valued clients.

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, 16th of November 2026***

0730 – 0800	*Registration & Coffee*
0800 – 0815	*Welcome & Introduction*
0815 – 0830	***PRE-TEST***
0830 – 0930	***Review of Fundamentals*** *Introduction ● Basic Physics & Mathematics Used in Radiation Protection ● Interaction of Radiation with Matter ● Sources of Radiation*
0930 – 0945	*Break*
0945 – 1100	***Quantities & Measurements*** *Quantities & Units ● Dosimetric Calculations & Measurements ● Principles of Radiation Detection & Measurement*
1100 – 1230	***Biological Effects of Ionizing Radiation*** *Effects of Radiation at the Molecular & the Cellular Level ● Deterministic Effects ● Stochastic Somatic Effects ● Stochastic Hereditary Effects • Effects on the Embryo & Foetus ● Epidemiological Studies & Issues ● The Concept of Radiation Detriment*
1230 – 1245	*Break*
1245 – 1420	***Principles of Radiation Protection & the International Framework*** *Conceptual Framework ● The Role of International Organizations in Radiation Protection • The Development of Safety Culture*
1420 – 1430	***Recap***
1430	*Lunch & End of Day One*

Day 2: **Tuesday, 17th of November 2026**

0730 – 0930	***Regulatory Control*** *Legal Framework for Radiation Protection & the Safe Use of Radiation Sources ● Regulatory System • Assessment of the Effectiveness of the Regulatory Programmest*
0930 – 0945	*Break*
0945 – 1100	***Assessment of External & Internal Exposures*** *Assessment of Occupational Exposure Due to Intakes of Radionuclides • Assessment of Occupational Exposure Due to External Sources of Radiation*
1100 – 1230	***Protection Against Occupational Exposure*** *Organization & Management ● Methods of Protection & the Safe Use of Radiation Sources; Optimization ● Individual & Workplace Monitoring ● Health Surveillance ● Potential Exposures ● Protection Against Occupational Exposure in Industrial Radiography ● Protection Against Occupational Exposure in Industrial Irradiators and Accelerators • Protection Against Occupational Exposure in the Use of Nuclear Gauges ● Protection Against Occupational Exposure in the Use of Tracers ● Protection Against Occupational Exposure in Well Logging Devices ● Protection Against Occupational Exposure in Diagnostic Radiology ● Protection Against Occupational Exposure in Nuclear Medicine ● Protection Against Occupational Exposure in Radiotherapy*
1230 – 1245	*Break*
1245 – 1420	***Medical Exposures in Diagnostic Radiology, Radiotherapy & Nuclear Medicine*** *Scope and Responsibilities • Justification of Medical Exposures • Optimization of Protection for Medical Exposures • Quality Assurance • Accidental Exposures in Medical Applications*
1420 – 1430	***Recap***
1430	*Lunch & End of Day Two*

Day 3: **Wednesday, 18th of November 2026**

0730 – 0930	***Exposure of the Public Owing to Practices*** *Sources of Exposure of the Public ● Responsibilities & Organization ● Safe Transport of Radioactive Material ● Safety of Radioactive Waste • Environmental Dose Assessment ● Source & Environmental Monitoring ● Consumer Products ● Dose Assessment ● Monitoring of Public Exposures*
0930 – 0945	*Break*
0945 – 1045	***Intervention in Situations of Chronic & Emergency Exposure*** *General Principles & Types of Events ● Basic Concepts for Emergency Response ● Basic Concepts for Emergency Preparedness for a Nuclear Accident or Radiological Emergency*
1045 – 1200	***Intervention in Situations of Chronic & Emergency Exposure (cont'd)*** *Developing a National Capability for Response to a Nuclear Accident or Radiological Emergency ● Overview of Assessment & Response in a Radiological Emergency ● Monitoring in a Nuclear Accident or Radiological Emergency • Medical Management of Radiation Injuries ● Communication with the Public ● International Cooperation*
1200 – 1215	*Break*
1215 – 1330	***Training the Trainers*** *Training Needs ● Being a Lecturer ● Setting Up a Training Course*
1330 - 1345	***Course Conclusion***
1345 - 1415	***COMPETENCY EXAM***
1415 – 1430	*Presentation of Course Certificates*
1430	*Lunch & End of Course*

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.

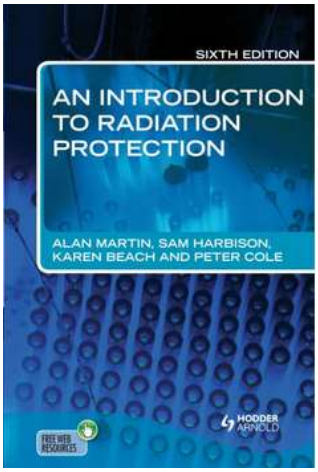




Thermo Scientific RadEye B20-ER Model

Book(s)

As part of the course kit, the following e-book will be given to all participants:



Title : An Introduction to Radiation Protection
ISBN : 978-1444146073
Author : Alan Martin, Sam Harbison, Karen Beach, Peter Cole
Publisher : CRC Press

Course Coordinator

Mari Nakintu, Tel: +971 2 30 91 714, Email: mari1@haward.org