

COURSE OVERVIEW HE0581-3D
Certified Radiation Protection Officer (RPO)

- (1) In-line with the Requirements of the Federal Authority for Nuclear Regulation (FANR)
 (2) Accredited by the National Centre for Radiation Protection (NCRP) - K.A. CARE

Course Title

Certified Radiation Protection Officer (RPO):
 (1) *In-line with the Requirements of the Federal Authority for Nuclear Regulation (FANR)*
 (2) *Accredited by the National Center for Radiation Protection (NCRP) - K.A.CARE*

Course Date/Venue

October 26-28, 2025/Slaysel 02 Meeting Room,
 Movenpick Hotel & Resort Al Bida'a Kuwait, City of Kuwait

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

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.

Accommodation

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


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:-


Certified Radiation Protection Officer
 Certification Number: 74851
 Certification Date: 14-Nov-2023
 Expiration Date: 14-Nov-2028

This is to certify that **Waleed Al Habeeb** has successfully met the requirements to be certified as a **Radiation Protection Officer (RPO)**: (1) In-line with the Requirements of the Federal Authority for Nuclear Regulation (FANR) (2) Accredited by the National Center for Radiation Protection (NCRP) - K.A.CARE Program, HE0581-3D.



Mr. Jaryl Castillo
Academic Director

Haward Technology is accredited by:




Radiation Protection Officer
 Certification Program

This program is designed to assist companies in identifying professionals who have satisfied the minimum competencies specified in HE0581-3D. Haward Technology does not warrant or guarantee the performance of any professional certified under this program.

Haward Technology is accredited by:



74851

- (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.

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Haward Technology Middle East

Continuing Professional Development (HTME-CPD)

CEUs

CEU Official Transcript of Records

TOR Issuance Date: 14-Nov-23

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): (1) In-line with the Requirements of the Federal Authority for Nuclear Regulation (FANR) (2) Accredited by the National Center for Radiation Protection (NCRP) - K.A.CARE	November 12-14, 2023	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










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Certificate Accreditations

Certificates are accredited by the following international accreditation organizations:-



NCRP: National Center for Radiation Protection (K.A.CARE)

Haward Technology’s radiation course is accredited by the **National Center for Radiation Protection (NCRP) – K.A.CARE (King Abdullah City for Atomic & Renewable Energy, KSA)**. The approval has been given after thorough review of the course content and instructor’s qualifications in delivering this program.

NCRP is the national regulatory authority in Saudi Arabia that develops, issues, and modifies the National Regulations in the areas of radiation safety. NCRP provides authorization and licensing to all radiation practices and radiation workers. It also conducts inspections related to radiation safety and security of radioactive sources.



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.

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. Fred Louw, PGDip, MSc, BSc, is a **Senior Safety Consultant & Radiation Specialist** with over **20 years** of extensive experience in **Radiation Safety/Protection, Radiation Physics, Nuclear Medicine, Radiation Oncology, Radiotherapy, Digital Image Protection, Operational Radiation Protection, Radiological Safety, Nuclear Medicine, Diagnostic Radiology, Accident/Incident & Condition Reporting, Accident/Incident Investigation, Accident & Incident Prevention, HAZOP, SHEQ Management, Root Cause**

Analysis, Health Risk Assessment, Internal Emergency Planning, Emergency Response, Incident Investigation, Nuclear Security & Emergency, Occupational Hygiene, Conventional Safety, OHSAS, Hazardous Chemical Substances, Quality Control & Assurance, OSH & COID Act, ISO 17025, ISO 90001, OSHAS 18001 and Radiation Protection Software such as **IMBA, VARSKIN, RASCAL**, etc. Further, he is also well-versed in Strategic Leadership Skills, Project Management, Accounting Management, Human Resource Management, Communications & IT Management, Conflict Management, Database Development & Administration, Internal Auditing, Communication/Presentation Skills, Budgeting & Negotiation Skills, Report Writing, Labour Law, Statistical Analysis and SQL & Programming Languages. He is currently the **HSE Manager & Chief Scientist (Radiation Protection Specialist)** of **NECSA** wherein he manages the RP function by long term strategic leadership and short-term operational coordination and provide technical support as an RPS and HSE Consultant.

During Mr. Louw's career life, he held significant positions such as the **Radiation Protection Officer (RPO), Radiation Protection Controller, Radiological Protection Consultant, Lead Investigator, Administrator, External Dosimetry Specialist, Medical Physicist, Team Leader and Instructor/Trainer** for international companies and agencies such as the South African Bureau of Standards (**SABS**) and Department Medical Physics Universitas Hospital and UFS just to name a few.

Mr. Louw has a **Post Graduate Diploma in Radiation Protection**, a **Master** degree in **Radiation Protection** and a **Bachelor** degree in **Physics & Applied Mathematics** from the **University** of the **Witwatersrand** and **University of Orange** of the **Free State** respectively. Further, he is a **Certified Instructor/Trainer, Certified Trainer/Assessor** by the **Institute of Leadership & Management (ILM)**, a **Registered Medical Physicist** and a **Registered Professional Natural Scientist**. Moreover, he is an active Chairman/member of South African Association for Physicist in Medicine and Biology (**SAAPMB**), a member of Southern African Radiation Protection Society (**SARPS**), Southern African Radiation Protection Association (**SARPA**), Health Physics Society of America, South African National INES Committee and International Radiation Protection Association (**IRPA**). He has further delivered various trainings, workshops, seminars, courses and conferences worldwide.



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 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, 26th of October 2025

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 Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow
1430	Lunch & End of Day One

Day 2: Monday, 27th of October 2025

0730 – 0930	Regulatory Control Legal Framework for Radiation Protection & the Safe Use of Radiation Sources • Regulatory System • Assessment of the Effectiveness of the Regulatory Programmes
0930 – 0945	Break
0945 – 1100	Assessment of External & Internal Exposures Assessment of Occupational Exposure Due to Intakes of Radionuclides



1100 – 1230	Assessment of External & Internal Exposures Assessment of Occupational Exposure Due to External Sources of Radiation
1230 – 1245	Break
1245 – 1420	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
1420 – 1430	Recap Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow
1430	Lunch & End of Day Two

Day 3: Tuesday, 28th of October 2025

0730 – 0930	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
0930 – 0945	Break
0945 – 1045	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
1045 – 1200	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 • 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 – 1300	Training the Trainers Training Needs • Being a Lecturer • Setting Up a Training Course
1300 – 1315	Course Conclusion Using this Course Overview, the Instructor(s) will Brief Participants about the Course Topics that were Covered During the Course
1315 – 1415	COMPETENCY EXAM
1415 – 1430	Presentation of Course Certificates
1430	Lunch & End of Course

Instruments (Hands-on Practical Sessions)

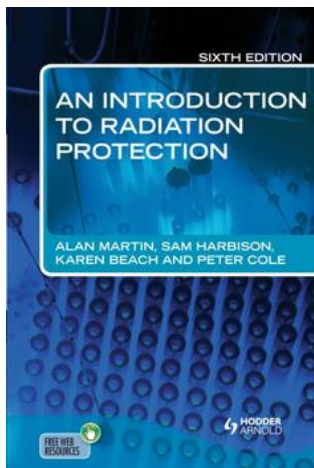
Practical sessions will be organized during the course for delegates to practice the theory learnt. Delegates will be provided with an opportunity to carryout various exercises using our state-of-the-art instrument “RadEye B20-ER” model.



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

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