COURSE OVERVIEW HE0295
Certified Radiation Safety Officer/Supervisor (RSO/RSS)

Course Title
Certified Radiation Safety Officer/Supervisor (RSO/RSS)

Course Date/Venue
Session 1: April 27-May 01, 2025/Crowne Meeting Room, Crowne Plaza Al Khobar, KSA
Session 2: August 03-07, 2025/Boardroom 1, Elite Byblos Hotel Al Barsha, Sheikh Zayed Road, Dubai, UAE

Course Reference
HE0295

Course Duration/Credits
Five days/3.0 CEUs/30 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 safety. It will help the participants to apply proper rules and regulations on radiation safety and describe the characteristics of ionizing radiation and radioactive decay mechanisms; identify the different types of radiation units & measurement terminology, biological effects of radiation exposure and use proper methods of minimizing radiation dose; use the radiation measurement techniques and illustrate the design and safety assessment of radiation protection in the industry.

The course will discuss the types of industrial radiation sources and safety equipment including personnel monitoring equipment, radiation detection equipment, x-ray machines, radiography cameras, associated equipment, transport containers, inspection, maintenance equipment, etc.

Course participants will practice emergency planning procedures and perform personnel monitoring as well as contamination control and limits; recognize ALARA program on maintaining exposures and dose limitations; distinguish workers and management responsibilities on safety protection from hazards and apply the general rules of safe handling of radioactive sources; describe the operational and environmental monitoring protection from radiation and identify the responsibilities of the regulators and other agencies as well as the purchasing, receipt & disposal of radiation sources; practice safe transport of radioactive materials and apply the control and safety aspects of radiation protection program for transport; and follow safety procedures for radioactive waste management and demonstrate radiography emergency planning, incident response and mitigation.

Course Objectives

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

- Get certified as a "*Certified Radiation Safety Officer*"
- Apply proper rules and regulations on radiation safety and describe the characteristics of ionizing radiation and radioactive decay mechanisms
- Identify the different types of radiation units and measurement terminology, biological effects of radiation exposure and use proper methods of minimizing radiation dose
- Employ proper radiation monitoring, surveys, dose limits and personal monitoring
- Discuss the types of industrial radiation sources and safety equipment including personnel monitoring equipment, radiation detection equipment, x-ray machines, radiography cameras, associated equipment, transport containers, inspection, maintenance equipment, etc
- Practice emergency planning procedures and perform personnel monitoring as well as contamination control including posting for radiation and radioactive materials
- Recognize ALARA program on maintaining exposures and dose limitations
- Distinguish workers and management responsibilities on safety protection from hazards and apply the general rules of safe handling of radioactive sources
- Illustrate the design and safety assessment of radiation protection in the industry
- Describe the operational and environmental monitoring protection from radiation and identify the responsibilities of the regulators and other agencies as well as the purchasing, receipt and disposal of radiation sources
- Practice safe transport of radioactive materials and apply the control and safety aspects of radiation protection program for transport
- Follow safety procedures for radioactive waste management and demonstrate radiography emergency planning, incident response and mitigation as well as recognize Abu Dhabi radiation protection law

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** conveniently saved in a **Tablet PC**.*

Who Should Attend

This course provides an overview of all significant aspects and considerations of radiation safety for those who are willing to be a Radioactive Safety Officer/Supervisor (RSO/RSS) such as safety officers, supervisors, engineers, inspectors and other technical staff.

Course Fee

US$ 5,500 per Delegate + **VAT**. This rate includes Participants Pack (Folder, Manual, Hand-outs, etc.), 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.

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.

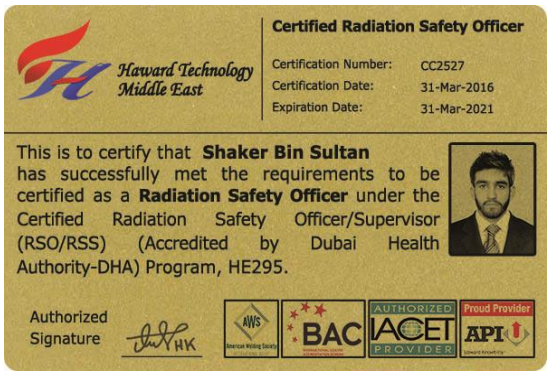
Course Certificate(s)

(1) Internationally recognized Competency Certificates and Plastic Wallet Card Certificates will be issued to participants who have successfully completed the course and 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)

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CEU Official Transcript of Records

TOR Issuance Date: 25-Feb-20

HTME No. PAR182287

Participant Name: Amir Al Attas

Program Ref.	Program Title	Program Date	No. of Contact Hours	CEU's
HE0581	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	February 23 - 25, 2020	30	3.0

Total No. of CEU's Earned as of TOR Issuance Date **3.0**

TRUE COPY

Maricel De Guzman
Academic Director

Haward Technology has been approved as an Authorized Provider by the International Association for Continuing Education and Training (IACET), 1760 Old Meadow Road, Suite 500, McLean, VA 22102, USA. In obtaining this approval, Haward Technology has demonstrated that it complies with the ANSI/IACET 1-2013 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 1-2013 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 | Fax: +971 2 3091 716 | E-mail: info@haward.org | Website: www.haward.org

Certificate Accreditations

Certificates are accreditation 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.

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, MSc, BSc, is **Senior Radiation Specialist** and **HSE Consultant** 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**, **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 & Programing Languages. He is currently the **Section 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.

During Mr. Louw's career life, he held significant positions such as the **Radiation Protection Officer** (**RPO**), **Radiation Protection Controller**, **External Dosimetry Specialist**, **Medical Physicist** & **Lecturer** and **Team Leader** 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 **Master's degree** in **Radiation Protection** and a **Bachelor's degree** in **Physics** from the **University of the Witwatersrand** and **University of the Free State Bloemfontein**, respectively. Further, he is a **Certified Instructor/Trainer**, **a Registered Medical Physicist at Health Professional Council of SA** (**HPCSA**) and a **Registered Professional Scientist of Radiation Protection for South African Council for Natural Scientists** (**SANASP**). Moreover, he is an active **Chairman/member of South African Association for Physicist in Medicine and Biology** (**SAAPMB**), **Southern African Radiation Protection Society** (**SARPS**), **Southern African Radiation Protection Association** (**SARPA**), **Health Physics Society of America**, **South African National INES Committee**, **National and IRPA Committee, Ministerial Appointed Task Team** and **National Committee Developing and Implementing National Source Register and National Dose Register** and **National Qualification of RPOs**.

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	***Characteristics of Ionizing Radiation*** *Radiation: Is a Natural Phenomenon ● What is Radiation? ● Natural Radiation ● Natural Sources of Radiation ● Cosmic Radiation ● Terrestrial Radiation ● Natural Radiation ● Artificial Sources of Radiation ● Composition of Matter ● Periodic Table of the Elements ● Light Elements: Hydrogen ● Light Elements: Helium ● Elements ● Atoms ● Atomic Particles*
0930 – 0945	*Break*
0945 – 1100	***Characteristics of Ionizing Radiation (cont'd)*** *Isotopes ● Radioactive Decay ● Half-life ● Radioactive Decay Graph ● Radioactive Decay – Half-lives ● Characteristics X-Rays ● Ionization ● Ionizing Radiation ● Alpha Particle Decay ● Alpha Particles ● Beta Particles ● Neutrons ● Properties of Radiation: Inverse Square Law ● X-rays vs. Gamma Rays ● Radiation Interactions: Summary ● Penetrating Ability of Different Types of Radiation*
1100 – 1215	***Radiation Units & Measurement Terminology*** *Radiation Units ● SI Units ● Prefixes ● Radiation Units: Activity ● Specific Activity ● Radiation Units: Exposure ● Absorbed Dose ● Dose Equivalent ● Recommended Quality Factors ● Dose Equivalence ● Other Dose Equivalents ● Radiation Exposure vs. Radiation Dose ● Example 1 ● Summary*
1215 – 1230	*Break*
1230 – 1330	***Biological Effects of Radiation Exposure*** *Recognizing the Hazards ● Radium Dial Painters ● Radium Tonics, Quack Cures, Etc. ● The Problem with Radium! ● Anklylosing Spondylitis Patients ● Atomic Bomb Survivors ● Hiroshima & Nagasaki ● Effects of Ionizing Radiation Exposure ● Isotopes Accumulate in Different Parts of the Body ● Pregnancy Risk ● How Radiation Can Harm a Cell ● Indirect Action ● Chain of Events from Indirect Action ● Non-Stochastic Health Effects*
1330 – 1420	***Biological Effects of Radiation Exposure (cont'd)*** *Acute Radiation Syndrome ● Hemopoietic Syndrome ● Gastrointestinal Effects ● Other Early Effects ● Skin Exposure ● Angioplasty Exposure ● Cataracts ● Stochastic (Late) Health Effects ● Stochastic (Random) Effects ● Cancer ● The Dose Makes the Poison ● Risk in Perspective ● Biological Effects of Radiation – Summary*
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

0730 – 0900	***Radiation Monitoring*** *Radiation Detection & Monitoring ● Radiation Monitoring ● Radiation Dosimetry ● Survey Meters ● Pocket Dosimeter ● Film Badge ● Thermoluminescent Badge (TLD) ● Thermoluminescent Dosimeter ● Optically Stimulated Luminescent Dosimeter (OSLD) ● Radiation Monitoring ● Radiation Instrument Operating Regions ● Geiger Muller Tube ● Ionization Chamber ● Scintillation Counter ● Scintillation Detector ● Photomultiplier Tube ● Personnel Monitoring ● Detection & Measurement ● Selection of Survey Meter ● Survey Meter Characteristics ● Calibration of Survey Meters*
0900 – 0915	*Break*
0915 – 1215	***Radiation Monitoring Surveys & Dose Limits*** *Early Protection Recommendations ● Regulatory Agencies ● Hierarchy of Standards ● What is Covered by the Standards? ● Abu Dhabi Radiation Protection Law ● Emergency Exposures ● Chronic Exposures ● Occupational Exposures ● Emergency Exposure ● Justification of Practices ● Dose Limitation*
1215 – 1230	*Break*
1230 – 1420	***Radiation Dose Limits & Personal Monitoring*** *Radiation Protection Goals ● Radiation Protection Objective ● Dose Limits ● Occupational Exposures ● Planned Special Exposures ● Radiation Detection & Monitoring ● Personnel Monitoring ● What is a Personnel Monitoring Program? ● Record Keeping ● Personnel Dose Records ● Rules for Personnel Dosimeters ● Objectives of Personnel Monitoring*
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

0730 – 0900	***Industrial Radiation Sources*** *Types of Radiation ● Radon ● NARM ● Man-Made (Artificial) Radiation Sources ● Consumer Products ● Medical Sources ● Industrial Products ● X-ray Fluorescence (XRF) Equipment ● Sealed Sources ● Sealed Source Mfrg. ● Plated/Foil Sources ● Ind. RAM: Self Luminous Devices ● Instrument Calibrators ● Calibrators ● Nuclear Gauges ● Portable Moisture/Density Gauges ● Portable M/D Gauges ● Gauge Functions: Direct Transmission ● Gauge Functions: Backscatter ● About the Gauge ● M/D Gauges: Asphalt Content ● M/D Gauge Design ● M/D Gauge Use ● Fixed Nuclear Gauges ● Fixed Nuclear Gauges – Design*
0900 – 0915	*Break*
0915 – 1045	***Industrial Radiation Sources (cont'd)*** *Fixed Nuclear Gauges – Configurations ● Fixed Gauges – Applications ● Fixed Gauges ● Summary: Nuclear Gauges ● Industrial RAM – Well Logging ● Well Logging ● Typical Well Logging Source ● Radiographic Testing (RT) ● Radiography Process ● X-Ray Radiography ● X-ray Tube Schematics ● Field X-Ray Radiography Systems ● Making a Radiograph ● Radiography Process: Isotopes ● Gamma Radiography ● IR Radioisotopes ● Radiography Work Sites ● Field Radiography ● Radiographic Exposure Devices ● Radiography Cameras ● Associated Equipment & Accessories ● Radiography Accessories ● Industrial Radiation Sources*

1045 - 1215	***Contamination Control*** *Contamination Control ● Daily Monitoring ● Survey Meters for Contamination ● Monthly Surveys ● Areas to Monitor ● Monitoring Smears ● Reporting ● Surveying for Removable Contamination ● Contamination ● External Contamination ● Internal Contamination ● General Rules ● Contamination Monitoring ● Contamination Control ● Contamination Prevention ● Control of Material ● Security ● Material Identification ● Labeling ● Waste Containers*
1215 – 1230	*Break*
1230 – 1420	***Posting for Radiation & Radioactive Materials*** *Radiation Warning Symbols ● Uncontrolled and Controlled Areas ● Caution Signs ● Radiation Area Sign ● More Caution Signs ● Evolution of Radiation Warning Signs ● Posting for Radiation & RAM*
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 Three*

Day 4

0730 – 0900	***ALARA*** *ALARA=Dose Limitation ● ICRP Recommendations ● Unjustified Exposures ● Dose Limitations ● Main ALARA Exposures ● Time ● Distance ● Shielding ● Implementing ALARA Principles ● Always Keep Radiation Doses As Low As Reasonably Achievable (ALARA) ● Internal Exposure Protection ● ALARA Questions*
0900 – 0915	*Break*
0915 – 1045	***Worker & Management Responsibilities*** *Management Responsibilities ● Responsibilities of Workers ● Co-operation ● The Optimization Principle ● The Optimization Procedure ● Appropriate Protection Measures ● The Safety Assessment ● Feedback & Evaluation ● Summary of Worker & Management Rights & Responsibilities ● Worker & Management Responsibilities Questions*
1045 – 1215	***Design & Safety Assessment*** *Protection from Hazards ● Protection from Internal Hazards ● Radiation Protection Philosophy ● Radiation Safety Assessment ● Procedure for Field Work ● Classification of Areas ● General Rules ● Safe Handling ● Safe Handling of Radioactive Sources ● Safe Handling of Unsealed Sources ● Safe Handling of X-Ray Machines ● General Rules: X-Ray Machines ● X-Ray Equipment Design ● Leak Tests ● Radiation Checks ● Calibrations/Leak Tests ● Maintenance ● Design & Safety Assessment*
1215 – 1230	*Break*

1230 – 1330	***Operational Radiation Protection*** *Radiation Protection Program ● Assignment of Responsibilities ● Accountability of Sources ● Controlled Areas ● Supervised Areas ● Local Rules, Supervision & Personal Protective Equipment (PPE) ● PPE ● Monitoring Program ● Individual Monitoring ● Workplace Monitoring ● Individual Dose Assessment ● Use of Investigation Levels ● Dose Records ● Training ● Quality Assurance Program ● Management Responsibility ● Operational Staff Responsibility ● Audits & Reviews ● Emergency Intervention ● Categories of Workers ● Medical Examination ● Counseling ● Record Keeping ● Personnel Dose Records ● Personnel Monitoring ● Detection & Measurement ● Moonlighting ● Operational Radiation Protection Questions*
1330 – 1420	***Environmental Monitoring & Protection*** *Environmental Monitoring ● Monitoring ● Operator Responsibilities ● Responsibilities of the Regulators ● Responsibilities of Other Agencies ● Contamination Pathways ● Types of Radiation Monitoring ● Source Monitoring ● Individual Monitoring ● Environmental Monitoring Programs ● Designing Environmental Monitoring Programs ● Environmental Monitoring Questions*
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 Four*

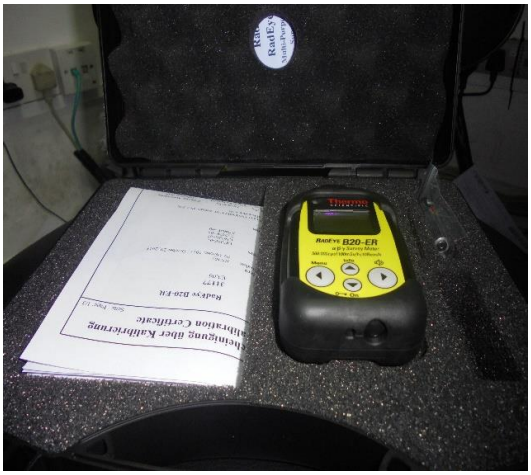
Day 5

0730 – 0830	***Purchasing, Receipt & Disposal of Radiation Sources*** *Purchasing ● Basic Information ● Radiation Worker ● Radiation Protection Program ● Administrative Control Measures ● Receipt of Radiation Sources ● Receiving a New Source ● Prior to Shipping ● It Arrives! ● Opening ● If I were You I would ● Disposal ● Purchasing, Receipt & Disposal*
0830 – 0930	***Transport of Radioactive Materials*** *RAM Transportation ● RAM Transportation Regulations ● U.S. Department of Transportation (USDOT) ● USDOT Regulations ● U.S. Regulatory Agencies ● U.S. Regulatory Agencies: USNRC ● U.S Postal Service ● Airline Organizations ● International Civil Aviation Organization (ICAO) ● International Air Transport (IATA) ● IATA ● Regulations ● Radiation Protection Program for RAM Transport ● Emergency Response ● Design Approval ● Training ● Hazmat Employee Training ● Definitions ● Definitions (49 CFR) ● Package Types ● Excepted Packages ● Industrial Packages ● Industrial Package Types ● IP-2 Container ● Type A Packages ● Type B Packages ● Package Design & Tests – Type A & B ● Content Limits – Type A & B ● Content Limits for Packages*
0930 - 0945	*Break*

0945 – 1045	***Transport of Radioactive Materials (cont'd)*** *Type C Packages ● Content Limits for Type C Packages ● Packages for Fissile Material & U Hexafluoride ● Uranium Hexafluoride Shipment ● Overpacks ● Marking, Labeling & Placarding ● Radiation Warning Labels ● Category I – White ● Category II – Yellow ● Category III - Yellow ● Package Warning Labels ● Label Categories ● Fissile ● Cargo Only Label ● Identification Labels ● More Labels ● Questionable Labels ● Placards ● Placarding Transport Vehicles ● Placarding Freight Containers ● Shipping Papers ● Sample Air Shipping Paper ● Consignors Declaration ● Notification of Competent Authorities ● Segregation in Transit & Storage ● Blocking & Bracing Packages ● RAM Shipping Areas ● Anti-Radwaste Transport Protestors*
1045 – 1115	***Radioactive Waste Management*** *Radioactive Waste – Definition ● Objective of Radwaste Management ● Radwaste Management Principles ● Radwaste–Forms ● Radwaste – Physical Forms ● Mixed Waste ● Mixed Waste: A Case History ● Radwaste – Classification ● Low-Level Radioactive Waste ● Radwaste Management – Basic Steps ● Radwaste Disposal Options ● Radwaste Management: Methods ● Radwaste Disposal Options ● Radwaste Management ● Radioactive Waste Management*
1115 – 1200	***Radiological Emergency Planning & Response*** *Radiation Emergency ● Sources of Radiation Emergencies ● Type of Radiological Emergencies ● So what's the Purpose of an Emergency Plan? ● Emergency Planning & Preparedness ● Emergency Plan ● Emergency Equipment ● Emergency Procedure ● Response Action ● Accidents Involving Contamination ● Accidents Involving External Exposure ● Accidents Involving Fire ● Case History: FedEx Plane Crash ● Personnel Decontamination ● Radiological Emergency Information ● Contamination Treatments ● Radiation Emergency Planning & Response Questions*
1200 – 1215	*Break*
1215 – 1300	***Abu Dhabi Radiation Protection Law*** *Legal Background ● International Commission on Radiological Protection (ICRP) ● IAEA Recommendations ● Abu Dhabi Radiological Protection Law ● UK legal vs Abu Dhabi Legislation ● Article 7 ● Articles 8-11 Optimisation and Dose Limits ● Article 12-14 Management Responsibilities ● Article 15 Prevention of Accidents ● Article 16 Emergency Plan ● Article 17 Operating Experience ● Article 18 Safety of Generators ● Article 20 Optimisation ● Article 21 Controlled and Supervised Areas ● Article 22 Local Rules and PPE ● Article 23 Workplace Monitoring ● Article 24 Personnel Monitoring ● Article 25/26 Monitoring of Compliance ● Article 27/28 Information, Training & Special Requirements ● Article 29 Public Exposure ● Article 30 Radioactive Waste ● Article 31 Monitoring of Public Exposure ● Article 32 Medical Exposure ● Article 39 Protection of Women*
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)

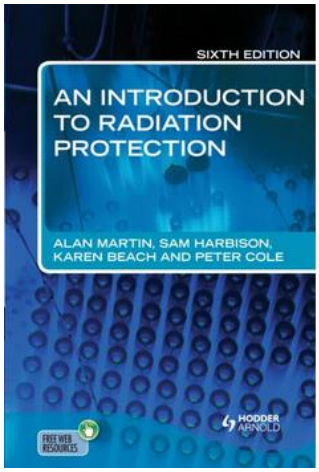
Practical sessions will be organized during the course for delegates to practice the theory learnt. Delegates will be provided with an opportunity to carryout various exercises using our state-of-the-art instrument "RadEye B20-ER" model.



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

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