

# **Training Course on Advance Radiation Protection**

## **Training Prospectus**

### **Title:**

Training Course on Advance Radiation Protection and Quality Management

### **Introduction:**

Personnel working as Radiation Protection Officers (RPO) and permanent radiation workers shall have a comprehensive understanding of radiation protection measures and appropriate quality management processes in their facilities.

The training course is designed according to the relevant international standards. The course introduces the participants to quality management of radiation facilities by developing a comprehensive safety regime. The course content is updated to follow the latest international basic safety standards such as International Atomic Energy Agency's "General Safety Requirements (GSR Part 3)", and "General Safety Guidelines (GSG 7)".

The course complies with the requirements of the "National Guideline on Radiation Safety for Health Sector" and the "Terms of Reference for Radiation Protection Officers" issued by the National Cancer Control Program in 2021.

### **Objective:**

The program is formulated for persons who are working or expect to work as Radiation Protection Officers (RPO) or who expect to obtain a comprehensive understanding of radiation protection. The program objectives include,

- Provide advanced concepts of radiation protection knowledge with the relevant theoretical and technical background.
- Provide comprehensive guidance to develop full-spectrum radiation protection measures at workplaces, according to national regulatory requirements and international guidelines.
- Improve knowledge and experience on the appropriate use of radiation protection equipment (TLD, Electronic Dosimeters, Survey Meters).
- Provide a comprehensive understanding of Quality Assurance (QA) and Quality Control (QC) of radiation protection equipment and tools (Calibration, Performance Testing).
- Guide to implementing workplace monitoring, extremity dosimetry, and internal dosimetry programs for the facility.

### **Target Group:**

- Radiation Protection Officers (RPOs) working in medical facilities.
- Quality Managers and Safety Managers of Radiation Utilizing Industries.
- Medical & supportive staff working at Ionization Radiation facilities such as Diagnostic (X-Ray, CT, Fluoroscopy, Angiography, Gamma Camera, PET, etc.), Therapeutic (Radiotherapy, Brachytherapy, Linear Accelerator, etc.), Nuclear medicine, or any other facilities that use ionizing radiation.
- Trainers and institutional safety officers.
- Anyone interested.

**Pre-requisites:**

It is preferred to have prior knowledge of Radiation Protection or have completed the Basic Radiation Safety Course of the SLAEB.

**Course Content:**

Lecture Topic		Duration (Minutes)
L1	Radiation and Health Effects	90
L2	Radiation Measurements	90
L3	Radiation Protection Measures	60
L4	Regulations and Licensing	45
L5	Selecting, Quality Control & Quality Assurance of Radiation Protection Instruments	45
L6	Individual Monitoring for Radiation Protection	45
L7	Development of a Workplace Monitoring Program	45
L8	Radiation Sources and Waste Management	45
L9	Development of a Radiation Protection Program	45
L10	Emergency Management and Planning	45

Practical Topic		Duration (Hours)
P1	Introduction to Measuring Instruments	1.5
P2	Individual Monitoring	1.5
P3	Radiation Measurements	1.5
P4	Calibration of Instruments	1.5
P5	Workplace Monitoring	1.5
P6	QA/QC of Instruments and Tools	1.5

**Course duration/dates:** Four days, 12<sup>th</sup> - 15<sup>th</sup> September 2023.

Time	12 <sup>th</sup> Sep (Tuesday)	13 <sup>th</sup> Sep (Wednesday)	14 <sup>th</sup> Sep (Thursday)	15 <sup>th</sup> Sep (Friday)
8:45 - 9:00	Inauguration	-	-	-
9:00 - 9:45	L1 - Radiation and Health Effects	L3 - Radiation Protection Measures	L6 - Individual Monitoring for Radiation Protection	L10 - Emergency Management and Planning
9:45 - 10:30			L7 - Development of a Workplace Monitoring Program	Evaluation Test
10:30 - 10:45	Morning Tea			
10:45 - 11:30	L2 - Radiation Measurements	L4 - Regulations and Licensing	L8 - Radiation Sources and Waste Management	Evaluation Test
11:30 - 12:15		L5 - Selecting, Quality Control & Quality Assurance of Radiation Protection Instruments	L9 - Development of a Radiation Protection Program	
12:15 - 13:00	Lunch			
13:00 - 13:45	P1 - Introduction to Measuring Instruments	P3 - Radiation Measurements	P5 - Workplace Monitoring	Discussion
13:45 - 14:30				
14:30 - 14:45	Evening Tea			
14:45 - 15:30	P2 - Individual Monitoring	P4 - Calibration of Instruments	P6 - QA/QC of Instruments and Tools	Award Ceremony
15:30 - 16.15				

**Course Fee:**

Rs: 15,000/= per participant. The course fee should be paid at the time of registration for the course by Cheque drawn in favor of Sri Lanka Atomic Energy Board, by Bank deposit (Bank: People's Bank-Dematogoda, Account No. 071-1-001-1-3320739) or by Cash.

Lunch and refreshments will be provided.

**Medium of Instruction:** Sinhala/English, Bi-lingual

**Venue:**

Sri Lanka Atomic Energy Board, 60/460, Baseline Road, Orugodawatta, Wellampitiya.

**Application procedure:**

Interested individuals in the target groups can be applied for the course using the specimen of the application form. The duly filled application form should be sent to,

Director-General,  
Sri Lanka Atomic Energy Board,  
60/460, Baseline Road,  
Orugodawatta,  
Wellampitiya.

through official channels confirming the payment of the course fee on or before the deadline for submission of the application.

If interested, fill out the following form.

<https://forms.gle/i4xErMMbehCB7Gvc8>



Kindly note that your information is kept confidential and only used for administrative requirements of the course.

**\*Note:**

***If the payment is personally paid, the applicant shall deposit a non-refundable minimum of Rs. 4000.00 to the Bank Account mentioned in the prospectus and attach a clear copy of the payment slip with duly filled application.***

***If the employer/institute pays the payment, an official letter shall accompany the application confirming the consent of the employer on payment.***

***All the payments shall be paid on or before the 05<sup>th</sup> September 2023.***

**Deadline for the Submission of Applications:** 30<sup>th</sup> of August 2023.

**Inquiries:**

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Sri Lanka Atomic Energy Board,  
No. 60/460, Baseline Road, Orugodawatta, Wellampitiya.

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