



**NATIONAL TRAINING COURSE FOR RADIATION SAFETY OFFICERS IN
DIAGNOSTIC AND INTERVENTIONAL RADIOLOGY,
29TH JULY- 9TH AUGUST 2019 LECTURE ROOM 2,
NATIONAL INSTITUTE OF RADIATION PROTECTION AND RESEARCH,
UNIVERSITY OF IBADAN, IBADAN.**

PROSPECTUS

- Venue:** Lecture Room 2, National Institute of Radiation Protection and Research, University of Ibadan, Ibadan, Oyo State.
- Date:** 29TH JULY - 9TH AUGUST, 2019
- Organizers:** National Institute of Radiation Protection and Research (NIRPR) in cooperation with the International Atomic Energy Agency (IAEA), Vienna, Austria.
- Contact Person:** Dr. Oyeyemi, S.M
Acting Head,
National Institute of Radiation Protection and Research,
PMB 39, UI Post Office, University of Ibadan,
Ibadan, Oyo State.
Tel: 08162217961, 08027458854
Email: nnrainstitute@nnra.gov.ng, samroky@yahoo.com
- Participation:** The National Training Course (NTC) is open to 100 participants
- Target Audience:** The target audience are employees designated or to be designated by their respective management as Radiation Safety Officers (RSOs), usually Engineers and Scientists or any other workers that are involved with the use of ionizing radiation or given the power to oversee all radiation safety operations within the organization.
- Purpose of the Training Course:** The purpose of the NTC is to help RSOs in Diagnostic and Interventional Radiology acquire enough competence to carry out their duties safely and contribute to the safe use of ionizing radiation sources in Nigeria.
- Participants Qualification and Experience** The NTC is open for RSOs who are designated or to be designated by their employees in Diagnostic and Interventional Radiology , or young science graduates or individuals with equivalent qualification who wish to pursue a career as RSOs
- Nature of the NTC** The focus of the NTC is on technical and administrative framework necessary for protection against ionizing radiation and safety of radiation sources in Diagnostic and Interventional Radiology. The NTC is based on the approved International Atomic Energy Agency (IAEA) training syllabus for RSOs. The course will consist of lectures, and practical sessions. An examination will be conducted at the end of the course and certificates shall be awarded to successful candidates. The duration of the course is One week.
- Syllabus:** Topics to be covered during the NTC include:
- Basic nuclear physics-Radioactivity
 - Quantities and units . Physical and Operational Quantities
 - Interaction of Radiation with matter

- Principles of radiation protection and international framework
- National regulatory framework, NNRA, the Act, NiBIRR, Nigerian Safety and Security of Radioactive Sources Regulations, Nigerian Transportation of Radioactive Sources Regulations
- Technical and Administrative requirements in the application of ionizing radiation sources
- Operational protection against radiation exposure
- Assessment of external and internal exposure
- Authorization procedure of the NNRA
- Safety Assessment for Diagnostic X ray Equipment
- Individual Monitoring of Medical Staff
- Workplace Monitoring
- Optimization of Protection & Safety
- Emergency Preparedness & Response for Events at Diagnostic X ray facilities
- Nuclear Security Architecture

Outcome:

At the end of the Course, participants are expected to:

- Have a good understanding of the basic principles of radiation protection in Diagnostic and Interventional Radiology.
- Understand the roles and duties of an RSO
- Be able to supervise work with radiation in general practices and check for compliance with specified local rules and procedures.
- Recognize potentially unsafe situation
- Develop Nuclear Security Culture.

This Course and subsequent refresher courses are part of our national requirements for Education and Training in Radiation, Transport and Waste Safety. In addition they are also prerequisite for the issuance of Authorisations by the NNRA.

Application Procedure:

Interested participants are to indicate their interest in writing by completing the application form herewith attached. The completed Application form with the appropriate course fee should reach the National Institute of Radiation and Research on or before **22ND JULY, 2019**. Participation will be on a first come first Serve basis

You can visit website: www.nirpr.org.ng

Administrative and Financial Arrangements:

The course fee for participation is **One Hundred and Fifty Thousand Naira Only (N150,000.00)** per selected candidate

**Account name / MDA: NIGERIAN NUCLEAR REGULATORY AUTHORITY
CBN (TSA)**

The fees shall cover for course Materials, Practical Sessions, Coffee and Lunch Breaks and other administrative arrangements. Participants are expected to make arrangements for their travel and Accommodation.

In this regard, the Hospital Managements in Diagnostic and Interventional Radiology are therefore encouraged to sponsor their nominated participants to the NTC for the benefit of their organization.