



Course Title	Training Course on Radiation Protection for Radiation Protection Officers of Industrial X-Ray Facilities
Duration	3 days (24 hours)
Target Participant	For personnel involved in the operation of an Industrial X-Ray facility. A minimum of ten (10) participants is required to push through with the course. A maximum of thirty (30) participants will be accepted.
Pre-requisite	The participant should have had a formal education to a level equivalent to a university degree, preferably in physics, chemistry, life sciences or engineering.
Goal	To enable the participants to acquire sufficient level of knowledge and understanding in the following areas: basic concepts of radiation physics, radiation biology and radiation protection; pertinent rules and regulations regarding operations of X-Ray facilities; components of a radiation safety program; and responsibilities of a radiation protection officer.
Objectives	At the end of this course, the participants must be able to: <ol style="list-style-type: none">1. Establish and implement a radiation safety program for an X-Ray facility;2. Conduct a radiation safety training program for the operators; and3. Formulate/draft a radiation protection manual.
Nature and Scope	This course consists of lectures, exercises, and examinations to be facilitated by PNRI lecturers and guest subject matter experts. A Certificate of Completion is given after the course to participants who passed the written examination with a t least 90% attendance and have submitted a manual on radiation protection for his/her Industrial X-Ray facility.
Application Requirements	(1) Application Form; (2) Recommendation Letter; (3) Training Fee of Php 5,000.00. Submit requirements to: Nuclear Training Center, Philippine Nuclear Training Center Commonwealth Avenue, Diliman, Quezon City Tel. No.: 89296011-19 local 236, Email: ntc@pnri.dost.gov.ph
Content	<ol style="list-style-type: none">1. Basic Nuclear Physics2. Interaction of X-Ray Radiation with Matter3. Quantities and Units Used in Radiation Protection4. Radiation Detection and Measuring Instruments (with Practical Demonstration)5. Biological Effects of Ionizing Radiation6. Principles of Radiation Protection and the International Framework7. Radiation control and Handling Practices8. Emergency Planning, Procedures, Preparedness, and Response9. Legal Framework for Radiation Protection10. FDA Authorization Requirements for Authorization of Radiation Facilities11. Applications of Industrial X-Rays12. Preparation of a Radiation Protection Manual