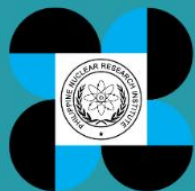


<b>Course Title</b>	<b>Radiation Safety Course - Industrial Radiography (RSC-IR)</b>
<b>Duration</b>	Ten days (80 hours); 8:00 – 5:00 pm
<b>Target Participant</b>	For individuals involved or will be involved in the use of gamma radiography on-site and in shielded enclosures.
<b>Pre-requisite</b>	A bachelor's degree in physical sciences or equivalent courses. Successful completion of the Non-Destructive Testing Course on Radiographic Testing (RT) Level 2 or equivalent.
<b>Goal</b>	To enable participants to acquire a sufficient level of understanding/skills in the following areas (1) basic radiation and radioactivity concepts; (2) fundamentals of radiation safety and security; (3) regulatory requirements; and (4) development and implementation of a radiation safety program applicable to their practice.
<b>Objectives</b>	<p>Participants should be able to:</p> <ol style="list-style-type: none"> <li>1. Identify the nature and severity of ionizing radiation hazards.</li> <li>2. Describe the nature and properties of gamma radiation and its associated hazards.</li> <li>3. Acquire a sufficient understanding of the applicable parts of CPR and apply them in industrial radiography activities.</li> <li>4. Explain and apply the principles of radiation protection.</li> <li>5. Apply basic concepts of radiation control practices and be able to perform calculations with these factors.</li> <li>6. Apply practical methods for reducing doses.</li> <li>7. Demonstrate acceptable work practices,</li> <li>8. Demonstrate ability to perform radiation surveys and correct operation of equipment</li> <li>9. Recognize an unusual situation and take the appropriate immediate actions to control doses.</li> <li>10. Develop a radiation safety program appropriate for their practice.</li> </ol>
<b>Nature and Scope</b>	<p>This course consists of lectures, exercises, a workshop, and examinations. The participant's understanding of the subject matter presented is assessed through the following:</p> <ol style="list-style-type: none"> <li>1. Pre and post-test given before and after the course (post-test of 55%)</li> <li>2. Development and group presentation of a Radiation Protection and Safety Program (30%)</li> <li>3. Practical exercises (10%)</li> <li>4. Attendance (5%)</li> </ol> <p>A certificate of completion will be issued to each participant with an overall grade of at least 75%.</p>



<b>Requirements</b>	(1) NTC Online Application; (2) Recommendation Letter to attend the course from Supervisor; (3) Medical Certificate; (4) 2X2 ID picture; (5) Training Fee of Php 13,000.00; 20% Discount Php 10,400.00 for PWD / Senior Citizen / Student (upload Valid ID)
<b>Course Content</b>	<p>Overview of Radiation Sources Used in Industrial Radiography</p> <p>Review of Fundamentals</p> <p>Interaction of Radiation with Matter</p> <p>Biological Effects of Ionizing Radiation</p> <p>External Dose</p> <p>Radiation Shielding</p> <p>Dose and Shielding Calculations</p> <p>Basic Principles of Radiation Protection</p> <p>Radiation Detection and Measurement</p> <p>Radiation Monitoring</p> <p>Exercise on Radiation Monitoring</p> <p>Maintenance and Calibration of Monitoring Instruments</p> <p>Radiation Control Practices</p> <p>Leak Testing</p> <p>Exercise on Leak Testing</p> <p>Radiographic Exposure Devices</p> <p>Repair and Maintenance of Radiographic Equipment</p> <p>Applicable Parts of the Code of PNRI Regulations</p> <p>Licensing Requirements and Procedures/ Duties and Responsibilities of RPO</p> <p>Security of Radiation Sources</p> <p>Safe and Secure Transport of Radioactive Materials</p> <p>Applicable Radioactive Waste Management Practices</p> <p>Case Histories in Industrial Radiography</p> <p>Emergency Planning and Preparedness</p> <p>Emergency Drill</p> <p>Development of a Safety Culture</p> <p>Development of a Radiation Protection and Safety Program</p> <p>Presentation of Radiation Protection and Safety Program</p>

To apply for a course,  
 scan me



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