

# Design Document Radiation Safety

<i>Business Purpose</i>	This training is to ensure that our organization is following the Occupational Safety and Health Administration (OSHA) and the Nuclear Regulatory Commission (NRC). The review of safe radiation practices ensures employees are educated on workplace hazards so they can work safely.
<i>Target Audience</i>	New employees with CJ Hospital regardless of the department, shift, or classification.
<i>Training Time</i>	15-20-min eLearning course.
<i>Training Recommendation</i>	This training is to be completed during the first week of employment. An eLearning course will provide the convenience to Human Resources to administer it without scheduling conflicts. The training completion will also serve as documentation to meet the OSHA and NRC compliance standards.
<i>Deliverables</i>	<ul style="list-style-type: none"><li>• 1 eLearning course, developed with Articulate Rise.</li></ul>
<i>Learning Objectives</i>	By the end of the training, the learner will be able to: <ul style="list-style-type: none"><li>• Identify the relationship between radiation exposure dose and time near source of radiation.</li><li>• Predict the effect on radiation dose with changes in distance from source of radiation.</li><li>• Distinguish proper radiation safety shielding devices.</li></ul>
<i>Training Outline</i>	<p>Introduction</p> <ul style="list-style-type: none"><li>• Hospital Mission statement</li><li>• Objectives</li><li>• What is radiation safety?<ul style="list-style-type: none"><li>• Safety of patients</li><li>• Safety of personnel</li><li>• Safety of general public</li></ul></li><li>• Cardinal rules of radiation protection<ul style="list-style-type: none"><li>• Time</li><li>• Distance</li><li>• Shielding</li></ul></li></ul> <p>Topic: Time</p> <ul style="list-style-type: none"><li>• Introduction to time and radiation safety<ul style="list-style-type: none"><li>• Rotate personnel to limit time near radiation sources.</li><li>• Listen for operators to notify when radiation exposure is being activated.</li><li>• Leave the room during the exposure.</li></ul></li><li>• Graphic of time and radiation dose</li><li>• Knowledge check</li></ul>

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	<p>Topic: Distance</p> <ul style="list-style-type: none"><li>• Introduction to distance and radiation safety</li><li>• Knowledge check</li><li>• Fundamental principle of distance and radiation safety<ul style="list-style-type: none"><li>• Safe distance</li></ul></li><li>• Knowledge check</li></ul> <p>Topic: Shielding</p> <ul style="list-style-type: none"><li>• Introduction to shielding and radiation safety.</li><li>• X-ray room design for radiation safety</li><li>• Personal protection devices<ul style="list-style-type: none"><li>• Types of personal protection devices<ul style="list-style-type: none"><li>i. Lead aprons and vests</li><li>ii. Radiation shields and barriers</li><li>iii. Thyroid shields</li></ul></li></ul></li><li>• Knowledge check</li></ul> <p>Final Assessment</p> <p>Summary</p>
<i>Assessment Plan</i>	<p>Knowledge checks during the modules</p> <p>Final Assessment</p> <ul style="list-style-type: none"><li>• 80% passing on eLearning module assessment consisting of 5 questions and learners will have unlimited attempts to pass.</li><li>• Multiple choice/multiple response questions</li></ul>