

RCT/HPT Site Standard OJT Program
OJE Evaluator Reference

Course Number: **022303**

Course Title: RCT/HPT OJT/OJE Task - Dose Rate Survey

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Form(s) Radiological Survey Report

[Generic forms may be used in lieu of contractor/facility specific forms]

Terminal Objective: Demonstrate and document a Dose Rate Survey

Objectives – Part A	
Method	Task
D	<p>Define the term "Whole Body".</p> <p style="text-align: center;"><i>For external exposure, head, trunk, elbow and arms above the elbow, knees and legs above the knees.</i></p>
D	<p>Define the term "Extremity".</p> <p style="text-align: center;"><i>Hands and arms below the elbow, feet and legs below the knee.</i></p>
D	<p>State the administrative control levels for annual equivalent dose for whole body, skin and extremity, lens of eye and organs per Table 2-0.</p> <p style="text-align: center;"><i>Whole body: 0.5 rem; skin and extremity: 15 rem; lens of eye: 4.5 rem; organs; 15 rem; lifetime: age X 1000</i></p>
D	<p>State the dose limits for general employees for annual equivalent dose for whole body, skin and extremity, lens of eye and organs per Table 2-1.</p> <p style="text-align: center;"><i>Whole body: 5 rem; skin and extremity: 50 rem; lens of eye: 15 rem; organs; 50 rem.</i></p>

Objectives – Part A	
Method	Task
D	<p>Discuss correction factors (CF) associated with the instruments</p> <p><i>RO-20:</i></p> <ul style="list-style-type: none"> • <i>Charts containing the CFs are located on side of the instrument</i> • <i>One chart for beams and one chart for discs</i> • <i>CFs will be associated with the diameter of the item being surveyed</i> <p><i>Micro-rem:</i></p> <ul style="list-style-type: none"> • <i>No CFs, general area reading only</i> <p><i>RO-3B:</i></p> <ul style="list-style-type: none"> • <i>Charts containing the CFs are located on side of the instrument</i> • <i>One chart for beams and one chart for discs. BB and BW also have alpha conversion chart</i> • <i>CFs will be associated with the diameter of the item being surveyed and distance from window</i> <p><i>RSO-50E:</i></p> <ul style="list-style-type: none"> • <i>One for gamma, two for beta</i> • <i>No CFs for contact readings have been established, if the source of radiation is larger than the instrument body the RCT may use 1 for gamma and 2 for beta for a contact reading.</i>
D	<p>Discuss obtaining contact, 30 cm and general area gamma readings</p> <p><i>Where distance measurement is taken from centerline of the detector (center of barrel etc.)</i></p>
D	<p>Discuss proper method of obtaining Beta dose rate readings</p> <p><i>Beta window open, facing source</i></p>

Objectives – Part B

P	Given a radiation survey instrument , demonstrate the following distances: Contact 30cm General area
P	Given a RSR, window open and window closed readings and a correction factor; document the deep and shallow dose rate (CHPRC/WPRS/MSA) WCH only- document gamma (window closed) and beta (window open) dose rates Give OW/CW readings, distance and size information.