

GAMMA RADIOGRAPHY

Candidate:	(Print full name)	(Signature)			ID:	
SPBNDT Affiliate No:		RT Level 3	providing A	ssessment		
1. Radiation Protection	(6 Points)	Pass (√)	Fail (x)	Assessor Initials	Expectations	
Has Direct reading dosimeter (DRD) licensed dosimetry service, and radi), audible dosimeter, dosimeter issued by ation survey meter in possession					
Turned on alarming dosimeter and s					As per Directorate Radiation Control	
Ensure power level of batteries are					(DRC) Regulations the IR must show	
Equipment checked for valid calibra				that they are knowledgeable of and have		
DRD was zeroed prior to start or engrange				the ability to properly operate all instruments and equipment		
Continuity/Function check for radiati	on detection equipment					
2. Inventory Control	(4 Points)	Pass (√)	Fail (x)	Assessor Initials	Expectations	
Proper sign out of the exposure dev	ice					
Proper survey and recording for surm mSv/hr)				Demonstrate the importance of accurate		
Use of all required daily records req	uired by Authority Holder				documentation control and record	
Ensure that emergency equipment is	s available and in working condition				keeping	
3. Prepare Work Area	(5 Points)	Pass (√)	Fail (x)	Assessor Initials	Expectations	
Initiates Job hazard assessment of v	work area					
Broken or deficient equipment is qua	arantined (may be done orally)					
Posts sufficient # of signs and barrie				Demonstrate safety and security when		
Evacuate persons from the controlle				preparing work area		
All equipment has been safely place	ed to prevent any incidents					
4. Device	(11 Points)	Pass (√)	Fail (x)	Assessor Initials	Expectations	
Cable Drive Device						
Use of survey meter during equipme	ent assembly for operation					
Equipment checks prior to operation				The Trainee Industrial Radiographer		
	ntact labels (name/phone #), source radiation g/safety, and cover protective covers.				(TIR) must demonstrate a good basic understanding of the devices used.	



GAMMA RADIOGRAPHY

 Remote control checks- handle, fittings, protective covers and inspect the 				
length for cuts, dents, or damage				
 Remote control drive cable checks - free movement, flex test, visual check 				
for fraying, kinks, or corrosion				They must be able to take accurate
 Head hose/guide tube - Checks fittings, connectors, threads, source stop 				radiation measurements during setup
and length of conduit for dents, cuts, damage or debris that may affect safe				and conduct all the necessary
operation				equipment checks.
Source assembly (go/no go gauge-if applicable				
Collimator and/or effective use of shielding used				<u> </u>
Demonstrates ability to connect the remote controls, the guide tube, collimator and				Failure to conduct these required checks could result in a serious unplanned
device together to prepare for an operation.				
Knowledge of use of transportation over pack and use				event.
Knowledge of emergency equipment requirements				
5. Operation (10 Points)	Pass (√)	Fail (x)	Assessor	Expectations
			Initials	
Proper use of survey meter				
Unlock and safely connect the exposure device and associated equipment in the				
correct order according to the manufacturer's specification.				
Exposing the source				
Verify barrier dose rates and radiation warning sign positions on first exposure				This is the most important part of the
using the survey meter				work process. The TIR must
Retract source				demonstrate proper control of the high-
Observation of survey meter and alarming dosimeter during source movement				risk source and device to ensure safety
Observation of proper operation and location of source position indicator (cable				and security at all times.
drive only)				Demonstration of barrier calculations
After each attempt to move the sealed source assembly to the shielded position				and erection of the barrier is necessary.
within the exposure device, use a radiation survey meter to ensure that the source				
assembly has returned to the safe shielded position				
Verify that operational procedures are followed				
Implementation of ALARA and basic radiation protection principles				
6. Post Exposure (8 Points)	Pass (√)	Fail (x)	Assessor	Expectations
			Initials	
Survey post exposure				_
Ensure the safety lock indicates that the source is locked and in safe position (may				
not be applicable for some devices)				_
Disassemble the equipment in the correct order according to the manufacturer's				
specifications	1	1		1



GAMMA RADIOGRAPHY

			The TIR must show how to secure the
ers and			device and verify the safety of the worksite in the proper order.
Pass (√)	Fail (x)	Assessor Initials	Expectations
			Maintaining accurate records is a
			regulatory requirement. The TIR must
		readin	show proper recording of all radiation
S			readings as well as the results of
			equipment checks.
Pass (√)	Fail (x)	Assessor Initials	Expectations
			The TIR must explain how to identify
			different emergency or dangerous
			occurrences and describe the process
			for mitigation.
Pass (√)	Fail (x)	Assessor Initials	Expectations
			The TIR must show knowledge of
			transport requirements including all
			package, signage and security
mation.			measures
Pass (√)	Fail (x)	Assessor Initials	Expectations
	Pass (√) Pass (√)	Pass (√) Fail (x) Pass (√) Fail (x) Pass (√) Fail (x) Pass (√) Fail (x) mation.	Pass (√) Fail (x) Assessor Initials Fail (x) Assessor Initials



GAMMA RADIOGRAPHY

Result								
Allocated 1 point for every √ Total Score (out of XX points)					÷ XX x 100 =	%		
Total Score with Transportation (out of XX points)				÷ XX x 100 =		%		
Result (≥ 90%is required)				Pass	Fail			
				Authorized A	ssessor			
Assessors Name (Print)			Title			RT Level 3	SPBNDT No.	
Company Name			Tel.			Email		
Assessors Signature			Tel.			Date		
Candidates Signature			Tel.			Date		
(Circle one) Yes Candidate has demonstrated the skills and attitude to safely operate a gamma exposure device.								
	No	o Candidate does not demonstrate the skills and attitude to safely operate a gamma exposure device.						
Remedial Practical	Instruction	S:						
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