

# EXPOSURE DEVICE OPERATOR - PRACTICAL EXAMINATION -

Candidate's Name: \_\_\_\_\_ NRCAN Reg. # \_\_\_\_\_ Result: \_\_\_\_\_  
(pass/fail)

Examiner's Name: \_\_\_\_\_ Reg. #: \_\_\_\_\_  
Certified RT2/CEDO/QO

Examiner Signature: \_\_\_\_\_ Date: \_\_\_\_\_

	Value	Completed		Examiner's Initials
		Yes	No	
<b>1. Determine Safe Surface Dose Rates on the Exposure Device</b>				
* a) wearing of TLD; DRD; and alarming Dosimeter	4.0	<input type="checkbox"/>	<input type="checkbox"/>	
b) zero DRD	1.5	<input type="checkbox"/>	<input type="checkbox"/>	
c) check batteries on survey meter	1.5	<input type="checkbox"/>	<input type="checkbox"/>	
* d) approach with survey meter	4.0	<input type="checkbox"/>	<input type="checkbox"/>	
<b>2. Prepare Exposure Device for Use</b>				
* survey exposure device prior to removal from storage	4.0	<input type="checkbox"/>	<input type="checkbox"/>	
<b>3. Complete only 1 (A OR B)</b>				
<b>A. Mechanical Drive</b>				
* a) inspect pig tail for wear/damage prior to hook-up	1.5	<input type="checkbox"/>	<input type="checkbox"/>	
* b) inspect cable end for wear/damage prior to hook-up	1.5	<input type="checkbox"/>	<input type="checkbox"/>	
* c) inspect guide tube and head hose for damage	1.5	<input type="checkbox"/>	<input type="checkbox"/>	
d) attach cable to pig tail	0.5	<input type="checkbox"/>	<input type="checkbox"/>	
e) attach guide tube	1.0	<input type="checkbox"/>	<input type="checkbox"/>	
f) attach head hose	1.0	<input type="checkbox"/>	<input type="checkbox"/>	
g) attach collimator	1.0	<input type="checkbox"/>	<input type="checkbox"/>	
<b>B. Pneumatic Drive</b>				
* a) inspect drive tube and head hose for damage	2.5	<input type="checkbox"/>	<input type="checkbox"/>	
* b) inspect air pump for damage	2.5	<input type="checkbox"/>	<input type="checkbox"/>	
c) attach drive tube	1.0	<input type="checkbox"/>	<input type="checkbox"/>	
d) attach head hose	1.0	<input type="checkbox"/>	<input type="checkbox"/>	
e) attach collimator	1.0	<input type="checkbox"/>	<input type="checkbox"/>	
<b>4. Prepare Working Area (practical or oral)</b>				
a) establish barriers	1.5	<input type="checkbox"/>	<input type="checkbox"/>	
* b) position signs as required	4.0	<input type="checkbox"/>	<input type="checkbox"/>	
* c) ensure area within barrier is clear of personnel	4.0	<input type="checkbox"/>	<input type="checkbox"/>	
<b>5. Cycle the Source (practical or oral)</b>				
a) move the source out to the collimator	1.5	<input type="checkbox"/>	<input type="checkbox"/>	
b) move the source to the fully shielded position	1.5	<input type="checkbox"/>	<input type="checkbox"/>	

	Value	Completed		Examiner's Initials
		Yes	No	
<b>6. Post Exposure</b>				
* a) survey the exposure device to ensure proper retrieval	4.0	<input type="checkbox"/>	<input type="checkbox"/>	
* b) view the posilock for proper indication that the source is locked in	4.0	<input type="checkbox"/>	<input type="checkbox"/>	
* c) lock the exposure device	4.0	<input type="checkbox"/>	<input type="checkbox"/>	
d) detach the headhose and install the retaining plug	1.5	<input type="checkbox"/>	<input type="checkbox"/>	
e) detach the guide tube	1.5	<input type="checkbox"/>	<input type="checkbox"/>	
f) return the exposure device to storage	1.5	<input type="checkbox"/>	<input type="checkbox"/>	
g) dismantle signs and barrier	1.5	<input type="checkbox"/>	<input type="checkbox"/>	
<b>7. Prepare Exposure Device for Transport</b> (practical or oral)				
a) verify device is secured	1.5	<input type="checkbox"/>	<input type="checkbox"/>	
b) verify placards are displayed	1.5	<input type="checkbox"/>	<input type="checkbox"/>	
c) check required documents	4.0	<input type="checkbox"/>	<input type="checkbox"/>	
- type B package design approval (PDAC) certificate				
- registered user document				
- shipping documents				
- permanent: equivalent level of safety (ELS) permit				
- unique for the shipment (non ELS Permit)				
<b>8. Optional</b>				
<b>Execution of Source Changing Procedures</b> (practical or oral)				
* a) wear TLD; DRD and Alarming Dosimeter				
b) zero DRD	4.0	<input type="checkbox"/>	<input type="checkbox"/>	
c) battery test survey meter	1.5	<input type="checkbox"/>	<input type="checkbox"/>	
* d) survey exposure device	1.5	<input type="checkbox"/>	<input type="checkbox"/>	
* e) survey source changer	4.0	<input type="checkbox"/>	<input type="checkbox"/>	
* f) transfer old source to changer	4.0	<input type="checkbox"/>	<input type="checkbox"/>	
* g) survey source changer	4.0	<input type="checkbox"/>	<input type="checkbox"/>	
* h) transfer new source to exposure device	4.0	<input type="checkbox"/>	<input type="checkbox"/>	
* i) survey exposure device	4.0	<input type="checkbox"/>	<input type="checkbox"/>	
j) ensure source changer is locked	4.0	<input type="checkbox"/>	<input type="checkbox"/>	
* k) lock exposure device	1.5	<input type="checkbox"/>	<input type="checkbox"/>	
l) remove accessories from exposure device	4.0	<input type="checkbox"/>	<input type="checkbox"/>	
m) lock exposure device back in storage	1.5	<input type="checkbox"/>	<input type="checkbox"/>	
	1.5	<input type="checkbox"/>	<input type="checkbox"/>	
<b>TOTAL</b>				

**FOOTNOTES:**

1. Missing a step with an “\*” means the candidate fails the task
2. Pass  $\geq$  80%