Candidate (Full Legal Name):		Date:
EDO Ref #:		D.O.B.:
Location:		Page | 1

ALL sections or subsections identified by a (*) are MANDATORY requirements of the practical examination.

1. Radiation Protection (6 Points)	Value	Fail (X)	Pass (√)	Examiner's Initials	Expectations
❑ *Has Direct reading dosimeter, audible dosimeter, dosimeter issued by licensed dosimetry service, and radiation survey meter in possession	1.0				As per CNSC Regulations the EDO must show that they are knowledgeable of and have the ability to properly operate all instruments and equipment
❑ *Turned on alarming dosimeter and survey meter before starting	1.0				
❑ *Ensure power level of batteries are sufficient for operation	1.0				
❑ *Equipment checked for valid calibration dates	1.0				
❑ *DRD was zeroed prior to start or ensure a minimum of 2 mSv (200 mR) total dose range	1.0				
❑ *Continuity/Function check for radiation detection equipment	1.0				

2. Inventory Control (4 Points)	Value	Fail (X)	Pass (√)	Examiner's Initials	Expectations
❑ Proper sign out of the exposure device	1.0				Demonstrate the importance of accurate documentation control and record keeping
❑ *Proper survey and recording for surface dose rates on the exposure device. (<2 mSv/hr)	1.0				
❑ Use of all required daily records required by licensee	1.0				
❑ Ensure that emergency equipment is available and in working condition	1.0				

3. Prepare Work Area (5 Points)	Value	Fail (X)	Pass (√)	Examiner's Initials	Expectations
❑ Initiates Job hazard assessment (JHA) of work area	1.0				Demonstrate safety and security when preparing work area
❑ Broken or deficient equipment is quarantined (may be done orally)	1.0				
❑ *Post sufficient # of signs and barriers to prevent entry into area	1.0				
❑ *Evacuate persons from the controlled area	1.0				
❑ All equipment has been safely placed to prevent any incidents	1.0				

Candidate:		Date:
Doc. Revision Date:	April 2014	Page | 2

4. Device (Choose one Device Type only) (11 Points)	Value	Fail (X)	Pass (√)	Examiner's Initials	Expectations
Cable Drive Devices					
❑ *Use of survey meter during equipment assembly for operation	1.0				
❑ *Equipment checks prior to operation:	1.0				
▪ Device checks – Company contact labels (name/phone #), source tag, trefoil radiation label, Fasteners, locking mechanism, shipping plug/safety, and cover protective covers.	1.0				
▪ Remote control checks– handle, fittings, brake, fasteners, protective covers and inspect the length for cuts, dents, or damage	1.0				
▪ Remote control drive cable checks – free movement, flex test, visual check for fraying, kinks, or corrosion	1.0				The EDO must demonstrate a good basic understanding of the devices being used.
▪ Head hose/guide tube – Checks fittings, connectors, threads, source stop and length of conduit for dents, cuts, damage or debris that may affect safe operation	1.0				
▪ Source assembly (go/no go gauge-if applicable)	1.0				
❑ Collimator and/or effective use of shielding used.	1.0				They must be able to take accurate radiation measurements during setup and conduct all the necessary equipment checks.
❑ Demonstrates ability to connect the remote controls, the guide tube, collimator and device together to prepare for an operation.	1.0				
❑ Knowledge of use of transportation overpack and use.	1.0				
❑ Knowledge of emergency equipment requirements	1.0				
Pneumatically Operated Devices					Failure to conduct these required checks could result in a serious unplanned event.
❑ *Use of survey meter during equipment assembly for operation	1.0				
❑ *Equipment checks prior to operation:	1.0				
▪ Device checks – Company contact label (name/phone #) source tag, trefoil radiation label, Fasteners, locking mechanism, shipping plug/safety, and cover protective covers	1.0				
▪ Checks on controls/pump – free movement, drive cable visual check for fraying, kinks, damage, handle, fittings, dummy source movement, screws, cuts, dents, brake, protective covers, pump leakage, cuts	1.0				

Candidate:		Date:
Doc. Revision Date:	April 2014	Page | 3

▪ Push/pull length & flex test	1.0				
▪ Spring length (end coiled over) & kinks	1.0				
▪ Guide tube – cuts, protective covers, dents, threads, source stop connection	1.0				
❑ Collimator and/or shielding used.	1.0				
❑ *Demonstrates ability to connect the pump, the head hose, collimator and device together in the correct order to prepare for an operation.	1.0				
❑ Knowledge of emergency equipment requirements	1.0				
❑ Shipping plug/safety cover, device lock	1.0				
5. Operation (10 Points)	Value	Fail (X)	Pass (√)	Examiner's Initials	Expectations
❑ *Proper use of survey meter	1.0				This is the most important part of the work process. The EDO must demonstrate proper control of the high risk source and device to ensure safety and security at all times.
❑ *Unlock and safely connect the exposure device and associated equipment in the correct order according to the manufacturer's specification.	1.0				
❑ *Exposing the source	1.0				
❑ *Verify barrier dose rates and radiation warning sign positions on first exposure using the survey meter	1.0				
❑ *Retract source	1.0				
❑ *Observation of survey meter and alarming dosimeter during source movement	1.0				
❑ Observation of proper operation and location of source position indicator (cable drive only)	1.0				
❑ *After each attempt to move the sealed source assembly to the shielded position within the exposure device, use a radiation survey meter to ensure that the source assembly has returned to the safe shielded position	1.0				
❑ Verify that operational procedures are followed	1.0				
❑ Implementation of ALARA and basic radiation protection principles.	1.0				

Candidate:		Date:
Doc. Revision Date:	April 2014	Page | 4

6. Post Exposure (8 Points)	Value	Fail (X)	Pass (√)	Examiner's Initials	Expectations
❑ *Survey post exposure	1.0				The EDO must show how to secure the device and verify the safety of the worksite in the proper order.
❑ *Ensure the safety lock indicates that the source is locked and in safe position (may not be applicable for some devices)	1.0				
❑ *Disassemble the equipment in the correct order according to the manufacturer's specifications	1.0				
❑ *Install retaining plug and/or port cover/cap	1.0				
❑ *Secure and lock the exposure device, properly store with protective covers and caps	1.0				
❑ Final site survey sweep	1.0				
❑ *Removal of posted radiation warning signs and barriers	1.0				
❑ Sign exposure device back in to secure storage area	1.0				

7. Record Keeping (5 Points)	Value	Fail (X)	Pass (√)	Examiner's Initials	Expectations
❑ Documented sign out device (dates/locations of use)	1.0				Maintaining accurate records is a regulatory requirement. The EDO must show how to properly record all radiation readings as well as the results of equipment checks.
❑ Documented survey reading on surface of device	1.0				
❑ Documented all equipment checks required by licensee	1.0				
❑ DRD readings	1.0				
❑ Trainee supervisor consent form	1.0				

8. Emergency Preparedness (oral examination) (6 Points)	Value	Fail (X)	Pass (√)	Examiner's Initials	Expectations
❑ *Recognize an emergency situation	1.0				The EDO must explain how to identify different emergency or dangerous occurrences and describe the process for mitigation.
❑ *Knowledge of required emergency equipment and location	1.0				
❑ *Knowledge of location emergency procedures	1.0				
❑ *Knowledge of initial emergency steps	1.0				
❑ *Proper use of Long Handled Tongs and shielding material	1.0				
❑ *Knowledge of correct contact information	1.0				

Candidate:		Date:
Doc. Revision Date:	April 2014	Page | 5

9. Transportation (if applicable) (5 Points)	Value	Fail (X)	Pass (√)	Examiner's Initials	Expectations
❑ Verifies the device is locked and secured.	1.0				Although the EDO cannot transport the device without TDG training, they must show a knowledge of transport requirements including all package, signage and security measures
❑ All requirements for the appropriate shipping document have been met.	1.0				
❑ Type A or Type B package requirements are met.	1.0				
❑ Proper labelling/placarding with the radiation symbol, UN#, contact information.	1.0				
❑ Properly placed within the vehicle for transport.	1.0				

10. Security (2 Points)	Value	Fail (X)	Pass (√)	Examiner's Initials	Expectations
❑ *Candidate was in control of device at all times throughout operations	1.0				
❑ *Verifies that when not in use the device was locked and secured inside 2 levels of locked enclosure and that there is immediate response to an alarm in the event of an attempted intrusion.	1.0				

TOTAL SCORE (out of 57 points): ____ **÷ 57 x 100 = _____%**

TOTAL SCORE with Transportation if applicable (out of 62 points): ____ **÷ 62 x 100 = _____%**

Result (Passing is ≥ 90%): PASS / FAIL (circle one)

Authorized Examiner (RSO, CEDO):

(Print Examiner's Name) (Title) (CEDO/QC) (CGSB REG #)

(Company Name) (Phone #)

(Examiner's Signature) (Date)

☐ Yes Candidate has demonstrated the skills and attitude to safely operate an exposure device.

☐ No Candidate does not demonstrate the skills and attitude to safely operate an exposure device.

Remedial Practical Instruction: