



# Self-Assessment and Cross-Referencing for internationally trained nuclear medicine technologists

Name: \_\_\_\_\_

Date: \_\_\_\_\_

This self-assessment tool is meant to assist you in identifying how your previous program education, work experiences and additional post-program training and educational opportunities compare to the general competency outcome requirements for Alberta-trained technologists.

There are six section headings in this self-assessment tool. Each section has statements related to the section heading. The sections and statements closely compare to the required knowledge, skill and attitude expected of technologists in Alberta.

Each statement requires two steps. For the first step, read through each of the self-assessment categories and statements. For each statement, self-assess your own professional practice and determine the status of your knowledge, skill and competency as it relates to the statement. Please review the chart below to understand the rating system for your self-assessment. Circle the number that is applicable to your own practice based on your knowledge, skill and competency for each statement. There is no right or wrong answer. This tool is used to assist the Registration Committee when your documents are reviewed.

The second step of each statement is the cross-referencing. Below each statement is space for you to reference where you learned, practiced or performed this skill. If your knowledge and skill for each statement can be referenced to one of your educational program courses, please list the course in the space provided. If the experience comes from your work experience, please list the facility where the work experience took place and the dates. If the experiences in any one of statements come from additional training and educational sessions, please list the learning activity in the space provided and include documents with your application verifying completion of the additional training and educational sessions you listed. The more information you can provide the more information the Registration Committee will have when making a decision regarding your application.

| <b>Self- Assessment Categories:</b> |   |  |
|-------------------------------------|---|--|
| 1                                   | I have never performed or learned about this skill/task.                  | <i>This is not something taught within the respective clinical program or learned through work experience.</i>   |
| 2                                   | I have not performed this skill since my initial training.                | <i>This is something only learned in the clinical program and not put into practice while working in the field.</i>  |
| 3                                   | I have had experience in this area. The experiences have not been recent. | <i>This is something taught within the clinical program or practiced early on in the career. This skill has not been practiced in the past five years.</i>           |
| 4                                   | I have limited experience in this area. The experiences are recent.       | <i>This is something taught within the clinical program and/or practiced in the career. The occurrences are infrequent and practiced within the last five years.</i> |
| 5                                   | I have extensive experience in this area. The experiences are recent.     | <i>This is something that is performed on a daily basis or fairly regularly. The occurrences are frequent and practiced within the last five years.</i>              |

## Section 1: Professional Accountability and Responsibility

### Legislation, Standards and Ethics

Adhere to and apply the Code of Ethics and Standards of Practice within my practice as outlined by my association or regulatory body. 1 2 3 4 5

Cross – referencing information: \_\_\_\_\_

Perform my duties while upholding my patients' legal and civil rights. 1 2 3 4 5

Cross – referencing information: \_\_\_\_\_

Maintain confidentiality of patient information and records. 1 2 3 4 5

Cross – referencing information: \_\_\_\_\_

### Teamwork

Work effectively and communicate professionally within a multidisciplinary healthcare team. 1 2 3 4 5

Cross – referencing information: \_\_\_\_\_

Negotiate resolutions to conflicts and problems in my practice environment. 1 2 3 4 5

Cross – referencing information: \_\_\_\_\_

### Professional Advocacy

Supervise, interact with and evaluate student technologists in the practice environment. 1 2 3 4 5

Cross – referencing information: \_\_\_\_\_

Provide education which is responsive to the diverse needs of the patient, public and healthcare population. 1 2 3 4 5

Cross – referencing information: \_\_\_\_\_

Share professional knowledge with other members of the multidisciplinary healthcare team. 1 2 3 4 5

Cross – referencing information: \_\_\_\_\_

Contribute to quality control initiatives and/or research activities. 1 2 3 4 5

Cross – referencing information: \_\_\_\_\_

**Professional Competence**

Demonstrate personal commitment to continuing professional development through formal programs and/or self-directed learning.

1      2      3      4      5

Cross – referencing information: \_\_\_\_\_

**Section 2: Workplace Health & Safety**

**Radiation Safety/Protection**

Consistently apply the principles of ALARA (as low as reasonably achievable).

1      2      3      4      5

Cross – referencing information: \_\_\_\_\_

Follow established policies and procedures to reduce radiation exposure risks to staff and others within the work environment.

1      2      3      4      5

Cross – referencing information: \_\_\_\_\_

Follow established policies and procedures regarding patients who might be pregnant.

1      2      3      4      5

Cross – referencing information: \_\_\_\_\_

Follow established policies and procedures to seek clarification to orders, requisitions or instructions.

1      2      3      4      5

Cross – referencing information: \_\_\_\_\_

Prevent and manage radioactive contamination of self, equipment and environment.

1      2      3      4      5

Cross – referencing information: \_\_\_\_\_

Manage radioactive spills according to regulations and employer standards.

1      2      3      4      5

Cross – referencing information: \_\_\_\_\_

Comply with the regulations when shipping and receiving radioactive materials.

1      2      3      4      5

Cross – referencing information: \_\_\_\_\_

Perform leak tests, wipe tests and radiation surveys.

1      2      3      4      5

Cross – referencing information: \_\_\_\_\_

**Occupational Health and Safety**

Consistently apply standards in the handling, use, storage and disposal of hazardous workplace materials. 1 2 3 4 5

Cross – referencing information: \_\_\_\_\_  
\_\_\_\_\_

Adhere to Occupational Health and Safety standards in the workplace 1 2 3 4 5

Cross – referencing information: \_\_\_\_\_  
\_\_\_\_\_

**Emergencies**

Respond appropriately to all facility threats and emergencies 1 2 3 4 5

Cross – referencing information: \_\_\_\_\_  
\_\_\_\_\_

**Section 3: Patient Care**

**Patient Environment**

Administer first aid/basic life support in emergency situations. 1 2 3 4 5

Cross – referencing information: \_\_\_\_\_  
\_\_\_\_\_

Apply body-fluid precautions to prevent contamination of person(s), equipment and environment. 1 2 3 4 5

Cross – referencing information: \_\_\_\_\_  
\_\_\_\_\_

Appropriately manage patient ancillary devices (i.e. intravenous (IV) lines and other diagnostic and therapeutic tubes/lines; IV pumps and other patient monitors; oxygen flow). 1 2 3 4 5

Cross – referencing information: \_\_\_\_\_  
\_\_\_\_\_

Ensure safe patient transfers. 1 2 3 4 5

Cross – referencing information: \_\_\_\_\_  
\_\_\_\_\_

**Patient Assessment and Intervention**

Ensure patient’s understanding of, and consent for, all procedures prior to action. 1 2 3 4 5

Cross – referencing information: \_\_\_\_\_  
\_\_\_\_\_

Adapt assessment and screening procedures according to patient's presentation and needs. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_

Identify contraindications to proceed with the patient's procedure. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_

**Operate power injector.** 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_

Safely administer medications, radiopharmaceuticals **and/or contrast media** to the patient as required for imaging purposes. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_

Monitor and assess patient vital signs. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_

Recognize and respond appropriately to changes in patient condition including when adverse reactions are experienced by patients receiving medications, radiopharmaceuticals **or contrast media.** 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_

**Communication and Education**

Provide pre- and post-procedural instructions, education and care to the patient. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_

Provide for the needs of patients and their families. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_

**Recording and Documenting**

Use current, appropriate and clear medical terminology. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_

Input and retrieve data using appropriate media. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Section 4: Operation of Equipment

### Fundamental Equipment Procedures

Ensure safe operation of radiation emitting, radiation safety and radiation monitoring equipment according to manufacturer's specification and departmental policies. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Perform basic troubleshooting; correct or report as appropriate. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Operate dose calibrators. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Operate well detectors and probes. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Operate survey meters and area monitors. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### Perform Equipment Quality Control (QC)

Perform QC of imaging equipment according to departmental policies and standards. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Perform QC of analytical equipment according to departmental policies and standards. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Evaluate outcomes of QC procedures. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Maintain equipment QC and repair records. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Section 5: Clinical Procedures

### Radiopharmacy

Elute molybdenum generator. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Perform radionuclide and chemical purity tests on eluate. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Prepare the eluate and label pharmaceutical with the eluate. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Perform radiochemical purity tests on radiopharmaceuticals. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Accurately calculate and dispense diagnostic and/or therapeutic radiopharmaceuticals. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### Fundamental Clinical Procedures

Confirm accuracy and completeness of requisition and resulting documentation. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Accurately prepare the patient and the equipment for all procedures. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Perform venipuncture. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Insert or remove instruments or devices beyond the opening of the urethra for the purpose of administering diagnostic examinations.

1 2 3 4 5

Cross – referencing information: \_\_\_\_\_

Input and access digital and electronic data relative to the management of the patient.

1 2 3 4 5

Cross – referencing information: \_\_\_\_\_

Compound or administer blood or blood products to perform autologous procedures.

1 2 3 4 5

Cross – referencing information: \_\_\_\_\_

Administer the correct radiopharmaceutical by the appropriate route.

1 2 3 4 5

Cross – referencing information: \_\_\_\_\_

Perform planar imaging.

1 2 3 4 5

Cross – referencing information: \_\_\_\_\_

Perform SPECT imaging.

1 2 3 4 5

Cross – referencing information: \_\_\_\_\_

Perform SPECT/CT imaging.

1 2 3 4 5

Cross – referencing information: \_\_\_\_\_

Perform PET and/or PET/CT imaging.

1 2 3 4 5

Cross – referencing information: \_\_\_\_\_

Perform bone mineral densitometry.

1 2 3 4 5

Cross – referencing information: \_\_\_\_\_

Perform dedicated computed tomography (CT).

1 2 3 4 5

Cross – referencing information: \_\_\_\_\_



Adapt standard protocols for the patient's age and condition. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_

Complete all procedures while adhering to high standards of radiation protection for the patient. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_

Assess images and data sets and confirm accuracy, acceptability and completeness. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_

Evaluate the need for additional or modified views based on acquired images. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_

Optimize and store electronic images. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_

Maintain knowledge of pathologies, conditions, diseases and disorders. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_

**Additional Procedures**

Set up and ensure an acceptable ECG acquisition. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_

Set up patient isolation room for I-131 therapy. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_

Monitor patient receiving I-131 therapy. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_

Decontaminate patient isolation room following I-131 therapy. 1 2 3 4 5  
Cross – referencing information: \_\_\_\_\_

|  |   |   |   |   |   |
|--|---|---|---|---|---|
| Prepare standard and stock solutions for the laboratory. | 1 | 2 | 3 | 4 | 5 |
|--|---|---|---|---|---|

Cross – referencing information: \_\_\_\_\_

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## **Section 6: Interpretation and Analysis**

### **Analyze and Enhance Practice**

|  |   |   |   |   |   |
|--|---|---|---|---|---|
| Evaluate 'best practices' in relation to quality assurance programs. | 1 | 2 | 3 | 4 | 5 |
|--|---|---|---|---|---|

Cross – referencing information: \_\_\_\_\_

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|  |   |   |   |   |   |
|--|---|---|---|---|---|
| Participate in professional growth opportunities which include research and presentations. | 1 | 2 | 3 | 4 | 5 |
|--|---|---|---|---|---|

Cross – referencing information: \_\_\_\_\_

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