

TO BE COMPLETED AND FORWARDED TO THE BOARD AS SPECIFIED BY THE BOARD WHILE PRACTISING UNDER SUPERVISION

PRACTITIONER UNDER SUPERVISION TO COMPLETE:

Applicant's name: _____ **Registration Number:** 40-0

Report covers work for the period: _____ to _____

Has more than one supervisor been allocated to this applicant (Circle one) Yes No

I would like the Board to consider the following comments:

The supervisor has discussed this report with me. (Circle one) Yes No

Date: _____ **Signature:** _____

SUPERVISOR TO COMPLETE

Name of Supervisor: _____ **Registration Number:** _____

Position of Supervisor: _____

Workplace: _____ **Phone:** _____

Please comment on the practitioner's strengths and areas for improvement/advancement (include plan to address any areas of concern if applicable):

As supervisor of the above applicant, I hereby certify that he/she has completed a minimum of ____ month's fulltime equivalent work experience since registration as a medical imaging and radiation therapy practitioner and can perform the skills as listed below to the standard of a nuclear medicine technologist. **Please note:** when there has been more than one supervisor, each supervisor is to complete a supervisor report. A copy of this report must be forwarded to the employing hospitals head of department.

Date: _____ **Signature** _____

SUPERVISOR TO COMPLETE:

Domain 1: Professional and Ethical Conduct

Ref	Key Competencies	Ref	Competency Indicators	Supervisor's comments
1.1	Practise in an ethical and professional manner consistent with relevant legislation and regulatory requirements, and knowledge of service provisions and resource management	1.1.a	Apply knowledge of legal responsibilities	
		1.1.b	Manage personal, mental and physical health to ensure fitness to practise	
		1.1.c	Apply knowledge of mandatory and voluntary reporting obligations	
		1.1.d	Apply knowledge of the Medical Radiation Technologists Board's <i>Code of Ethics</i> to their practice	
		1.1.e	Provide relevant information to the patient and apply knowledge of appropriate methods to obtain informed consent	
		1.1.f	Apply knowledge of the New Zealand health system	
		1.1.g	Apply knowledge of the basic principles underpinning ethical practice within the medical imaging/radiation therapy profession	
		1.1.h	Apply knowledge of appropriate levels of autonomy and professional judgement in a variety of medical imaging/radiation therapy practice settings	
1.2	Provide each patient with an appropriate level of dignity and care in a range of settings in partnership with patients, families/whanau, and communities	1.2.a	Apply knowledge of the influence of socio-cultural factors on patient attitudes and responses to medical imaging/ radiation therapy services	
		1.2.b	Apply knowledge of appropriate professional behaviour in patient interactions	
		1.2.c	Apply knowledge of appropriate boundaries between patients and health professionals	

Ref	Key Competencies	Ref	Competency Indicators	Supervisor's comments
1.3	Assume responsibility and accept accountability for professional decisions	1.3.a	Apply knowledge of appropriate responses to unsafe or unprofessional practice within their scope of practice	
		1.3.b	Apply knowledge of organisational policies and guidelines with professional standards within their scope of practice	
		1.3.c	Apply knowledge of relevant quality systems appropriate to their scope of practice	
1.4	Advocate on behalf of the patient when appropriate within the context of the practitioner's scope of practice	1.4.a	Apply knowledge of the principles of patient advocacy and their application to medical imaging/radiation therapy services	
		1.4.b	Apply knowledge of when it may be appropriate to intervene on the patient's behalf	
		1.4.c	Apply knowledge of responsibilities to consult with other members of the health care team about the suitability and application of the proposed medical imaging/radiation therapy procedure when appropriate	

Domain 2: Communication and Collaboration

Ref	Key Competencies	Ref	Competency Indicators	Supervisor's comments
2.1	Communicate clearly, sensitively and effectively with the patient and their family/whanau or carers	2.1.a	Apply knowledge of ways to establish rapport with the patient to gain understanding of their issues and perspectives	
		2.1.b	Apply knowledge of ways to communicate with the patient and/or carers to collect and convey information and reach agreement about the purpose of the examination/treatment, techniques and procedures	
		2.1.c	Apply knowledge of communication strategies to engender trust and confidence and respect patient confidentiality, privacy and dignity	
		2.1.d	Respond to patient queries or issues	
		2.1.e	Apply knowledge of likely communications barriers specific to individual patients and/or carers	
		2.1.f	Apply knowledge of appropriate adjustments to communication style to suit the particular needs of the patient including those from culturally and linguistically diverse backgrounds	
		2.1.g	Apply knowledge of how to engage third parties to facilitate effective communication when required	
		2.1.h	Apply knowledge of informed consent	
2.2	Collaborate with other health practitioners	2.2.a	Apply knowledge of effective and respectful working relationships with health practitioners	
		2.2.b	Apply knowledge of professional roles and responsibilities of healthcare team members and other service providers	
		2.2.c	Apply knowledge of accepted protocols and procedures to provide relevant and timely verbal and written communication	

Domain 3: Evidence-Based Practice and Professional Learning

Ref	Key Competencies	Ref	Competency Indicators	Supervisor's comments
3.1	Apply critical and reflective thinking to resolve clinical challenges	3.1.a	Describe the clinical challenge or question	
		3.1.b	Identify information required to respond to the challenge or question	
		3.1.c	Apply knowledge of appropriate methods to collect and assess evidence	
		3.1.d	Apply knowledge of the identification, access or collection of information from credible sources	
		3.1.e	Apply knowledge of how to assess the adequacy of information to answer the issue under inquiry	
		3.1.f	Apply knowledge of the assessment of imaging results, applying clinical reasoning and reflective processes to identify implications for practice, including limitations of practice and recognition of need to consult	
		3.1.g	Apply knowledge of the review of clinical action plans/protocols	
3.2	Identify ongoing professional learning needs and opportunities	3.2.a	Apply knowledge of legal and professional responsibilities to undertake continuing professional development (CPD)	
		3.2.b	Apply knowledge of personal strengths and limitations to identify learning required to improve and adapt professional practice	
		3.2.c	Apply knowledge of strategies for identifying learning needs of self and others to deliver improved patient outcomes	
		3.2.d	Apply knowledge of planning and implementation strategies to address professional and development needs	
3.3	Facilitate understanding and learning in a clinical environment	3.3.a	Apply knowledge of communication strategies to facilitate understanding and learning both within an individual and group context	
		3.3.b	Apply knowledge of assessment, evaluation and feedback	

Domain 4: Safety of Practice and Risk Management

Ref	Key Competencies	Ref	Competency Indicators	Supervisor's Comments
4.1	Practise safely, appropriate to the scope of practice	4.1.a	Apply knowledge of New Zealand radiation safety legislation and/or guidelines of international best practice in the safe use of medical imaging/radiation therapy technologies	
		4.1.b	Apply knowledge of the principles of risk management relevant to medical imaging/radiation therapy	
		4.1.c	Apply knowledge of risk control systems and procedures	
		4.1.d	Apply knowledge of safe medical imaging/radiation therapy practice	
4.2	Protect and enhance patient safety	4.2.a	Apply knowledge of patient identification procedures to confirm the correct match of patient with intended procedure	
		4.2.b	Apply knowledge of maintaining and communicating patient information to ensure accuracy and confidentiality	
		4.2.c	Apply knowledge of risks associated with patient transfers	
		4.2.d	Apply knowledge of risk of infection	
4.3	Operate equipment safely and appropriate to the scope of practice	4.3.a	Apply knowledge of equipment to confirm that it is in good order and operating within acceptable parameters	
		4.3.b	Apply knowledge of the identification and appropriate action to correct unacceptable condition or operation of equipment	
		4.3.c	Apply knowledge of protocols to record and report conformance and non-conformance of equipment	

Ref	Key Competencies	Ref	Competency Indicators	Supervisor's Comments
4.4	Maintain safety of self and others in the work environment appropriate to the scope of practice	4.4.a	Apply knowledge of legal responsibilities for health and safety of self and others	
		4.4.b	Apply knowledge of the safety hazards in the workplace and apply knowledge of responsibilities for notification	
		4.4.c	Apply knowledge of the identification and implementation of safety management procedures	
		4.4.d	Apply knowledge of medical imaging/radiation therapy related hazards and control measures to ensure the safety of others in the workplace	
		4.4.e	Apply knowledge of appropriate personal protective clothing and equipment	
		4.4.f	Apply knowledge of reporting incidents in accordance with protocols, procedures and legal requirements	

Domain 5: Medical Imaging/Radiation Therapy Sciences Practice

Ref	Key Competencies	Ref	Competency Indicators	Supervisor's Comments
5.1	Apply understanding of anatomy, physiology and pathology appropriate to the scope of practice	5.1.a	Apply knowledge of the anatomy and physiology of the human body relevant to the scope of practice	
		5.1.b	Apply knowledge of the pathophysiology underpinning disease and injuries affecting the human body	
		5.1.c	Apply knowledge of anatomical structures, injuries and pathologies of the human body in dynamic, planar, sectional and 3D images	
5.2	Apply principles of medical imaging/radiation therapy physics and equipment	5.2.a	Apply knowledge of principles of medical imaging/radiation therapy physics and equipment	
		5.2.b	Apply knowledge of the use of equipment and laboratory procedures appropriate to the scope of practice	
		5.2.c	Apply knowledge of the principles of medical imaging/radiation therapy physics to optimise patient outcomes	
5.3	Use patient information management systems appropriately	5.3.a	Apply knowledge of legislative responsibilities relating to ownership, storage, retention and destruction of patient records and other practice documentation	
		5.3.b	Apply knowledge of patient information systems	
		5.3.c	Apply knowledge of the verification and management of information applicable to the scope of practice	
5.4	Confirm the procedure according to clinical indicators	5.4.a	Apply knowledge of the patient's clinical history, referral and current medical information to confirm the requested procedure is appropriate	
		5.4.b	Apply knowledge of the appropriate imaging and/or treatment protocols and priorities, including consideration of the information collected during the initial interaction with the patient and knowledge of imaging and/or treatment options	
		5.4.c	Apply knowledge of adaptation of the requested examination to an individual patient considering available clinical information	

Ref	Key Competencies	Ref	Competency Indicators	Supervisor's Comments
5.5	Exercise clinical judgement and decision-making	5.5.a	Apply knowledge of factors or conditions that may affect the patient's behaviour and/or capacity to undergo the procedure	
		5.5.b	Apply knowledge of patient preparation requirements	
		5.5.c	Apply knowledge of patients most at risk, according to modality and/or specific procedures	
		5.5.d	Apply knowledge of contraindications and limitations of medical imaging/radiation therapy services	
		5.5.e	Apply knowledge of patient assessment and medical imaging/radiation therapy interventions in accordance with legislation, registration standards, codes and guidelines	
5.6	Deliver patient care appropriate to the scope of practice	5.6.a	Apply knowledge of bio-effects of ionising and non-ionising radiation and dose optimisation to deliver safe and effective patient outcomes	
		5.6.b	Identify and respond to a patient's deteriorating condition or inability to undergo a procedure or treatment, consistent with duty of care and statutory requirements	
		5.6.c	Apply knowledge of responsibilities to confirm the requested examination addresses the clinical question and for conveying information when significant findings are identified	
5.7	Manage and manipulate 3D datasets for image acquisition relevant to the scope of practice	5.7.a	Apply knowledge of how 3D datasets are generated	
		5.7.b	Apply knowledge of the use of 3D images for optimal diagnostic or therapy outcomes to confirm that appropriate data is obtained	
5.8	Apply knowledge of pharmaceuticals relevant to the scope of practice	5.8.a	Apply knowledge of pharmaceuticals, pharmacodynamics and the potential range of reactions to drugs or agents relevant to the scope of practice	
		5.8.b	Apply knowledge for the delivery and administration of correct pharmaceuticals to patients relevant to the scope of practice	

Domain 5B: Nuclear Medicine Technologist

Ref	Key Competencies	Ref	Competency Indicators	Supervisor's Comments
5B.1	Prepare and assess the purity of radiopharmaceuticals	5B.1a	Apply knowledge of the elution and quality control of a radioisotope generator	
		5B.1b	Apply knowledge of assaying the eluate and preparing radiopharmaceuticals ensuring critical procedure features are observed, such as correct volume	
		5B.1c	Apply knowledge of quality control on radiopharmaceuticals and assess for patient use	
5B.2	Explain the bio distribution and applications of radiopharmaceuticals including therapies	5B.2a	Demonstrate knowledge of the procedure of bio distribution, including determining whether it is normal, altered or unexpected	
5B.3	Perform routine nuclear medicine imaging (may include PET)	5B.3a	Apply knowledge of the technique appropriate to the examination	
		5B.3b	Apply knowledge of imaging projections and their application to each body area	
		5B.3c	Apply knowledge of standard and hybrid studies for the best diagnostic outcome for the patient	
		5B.3d	Apply knowledge of the evaluation of nuclear medicine images	
5B.4	Perform computed tomography (CT) imaging for attenuation correction and anatomical fusion imaging	5B.4a	Apply knowledge of the use, design and operation of CT systems	
		5B.4b	Apply knowledge of imaging parameters, scan protocols and relative dose levels based on a range of patient presentations	
		5B.4c	Apply knowledge of anatomical/attenuation correction CT scan	
		5B.4d	Apply knowledge of post processing techniques, including multi-planar reformats, co-registration, and volume imaging	

Ref	Key Competencies	Ref	Competency Indicators	Supervisor's Comments
5B.5	Perform nuclear medicine radioisotope examinations	5B.5a	Apply knowledge of dose and radioactive decay used in examinations and therapies	
		5B.5b	Apply knowledge of the difference between therapeutic and diagnostic doses as it affects the patient, health practitioner, and the general public	
		5B.5c	Apply knowledge of patient preparation, care, and aftercare, and delivery systems for nuclear medicine radioisotope examinations	
		5B.5d	Apply knowledge of appropriate dose delivery systems and safe aseptic techniques	
5B.6	Demonstrate understanding of in vivo, mixed in vitro, and in vitro laboratory procedures	5B.6a	Demonstrate understanding of aseptic blood labelling procedures	
		5B.6b	Demonstrate understanding of in vivo, mixed in vitro, and in vitro laboratory procedures	
		5B.6c	Demonstrate understanding of methods to determine if results of laboratory procedures are normal, altered, or unexpected	
		5B.7a	Demonstrate understanding of dose and radioactive decay for therapeutic administrations	
5B.7	Demonstrate understanding of nuclear medicine radioisotope therapies	5B.7b	Demonstrate understanding of the principles underpinning nuclear medicine radioisotope therapies	
		5B.7c	Demonstrate understanding of patient preparation, care and aftercare, and delivery systems for nuclear medicine radioisotope therapies	
		5B.7d	Demonstrate understanding of appropriate dose delivery systems and safe, aseptic techniques	

Ref	Key Competencies	Ref	Competency Indicators	Supervisor's Comments
5B.8	Perform quality control procedures related to nuclear medicine practice	5B.8a	Apply knowledge of quality control to support safe nuclear medicine practice	
5B.9	Safely manage radiation and radioactivity in the environment	5B.9a	Apply knowledge of the environmental risks of manufactured radiation and radioactivity	
		5B.9b	Apply knowledge of safe and legal methods of handling, storage, and disposal	
		5B.9c	Apply knowledge of protocols and procedures in response to radiation and radioactivity incidents	
5B.10	Consult and report	5B.10a	Apply knowledge of responsibilities for conveying information when significant findings are identified	

For more information regarding the competency requirements, refer to the publication:

“Competence Standards for Medical Imaging and Radiation Therapy Practice in New Zealand” which can be found on the Board’s website under publications www.mrtboard.org