



**ACPSEM**

Australasian College of Physical Scientists & Engineers in Medicine  
ABN 44005379162

# **The ACPSEM Register of Qualified Medical Physics Specialists and Radiopharmaceutical Scientists**

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## **REGISTRATION REQUIREMENTS POLICY**

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## **ACKNOWLEDGEMENTS**

A major revision of this document has been undertaken following decisions of the Professional Standards Board as approved by the ACPSEM Board in November 2015. This followed consultation on an options paper developed by Anne Perkins with a consultation led by Steve Howlett.

Certification Panels have worked together and with their panels to achieve an integrated approach covering all specialties and with their panels to review and refine new certification and registration policy.

# REGISTRATION REQUIREMENTS POLICY

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## 1. FUNCTION OF THE REGISTER

The ACPSEM Register of Qualified Medical Physics Specialists and Radiopharmaceutical Scientists (the Register) is the official record kept by ACPSEM to identify specialists in Medical Physics and Radiopharmaceutical Science who have demonstrated, and are demonstrating current competency to practise.

Registration is recognition by the ACPSEM that an individual is competent to practise safely and independently in their chosen specialty in Australia and New Zealand. The Register is intended to guard against unsafe, incompetent and unethical practice in Medical Physics and Radiopharmaceutical Science. It is intended to be used to ensure that the services of Qualified Medical Physics Specialists or Radiopharmaceutical Scientists provided to the public are delivered by professionals who have attained a high standard of practice recognised at a national and international level. Complying with the ACPSEM's Code of Ethics and meeting the ACPSEM's Continuing Professional Development (CPD) requirements are requirements of continuing registration to ensure ongoing competence.

The Register is a publicly available document. There are several pathways to enter the Register. Those with ACPSEM certification and evidence of CPD are automatically eligible, but alternative pathways may be used by experienced practitioners who don't hold ACPSEM certification.

This document specifies the requirements to be met for admission to the ACPSEM Register of Qualified Medical Physics Specialists and Radiopharmaceutical Scientists. The Register is open to members and non-members of the ACPSEM and a fee or fees, to be determined by the ACPSEM, may be charged by the ACPSEM to administer the Register.

The Register shall be managed in such a way as to maintain confidentiality of the information provided to the Register which is not made publicly available as part of the function of the Register. The principles of natural justice and confidentiality shall be applied to the processes that are part of the management of the Register.

## 2. CONDITIONS OF REGISTRATION

Successful application for entry to the Register and acceptance of the application resulting in entry to the Register constitutes a binding agreement that the registrant will:

1. Practise safely and in accordance with the professional standards of their specialty to deliver the best possible outcomes for patients;
2. Abide by the ACPSEM Code of Ethics (whether a member or not);
3. Agree for the registrant's name, specialty and principle place of practice and expiry date if relevant, to be publicly available and published on the Register to be made available by the ACPSEM through various means including on the ACPSEM website;
4. Provide permission for the ACPSEM to state whether the registrant is on the Register to employers or regulators; and
5. Maintain Continuing Professional Development (CPD) in accordance with ACPSEM requirements as may be applied from time to time to remain on the Register as prescribed by the ACPSEM CPD Committee.

The Conditions of Registration may be varied by the ACPSEM from time to time.

### 3. ADMISSION TO THE REGISTER

The Professional Standards Board of the ACPSEM maintains a separate section of the Register for each of the recognised Medical Physics Specialties. Admission to the Register occurs through a formal application and assessment process.

The Register is open to following specialties:

- Radiation Oncology Medical Physics
- Radiology Medical Physics
- Nuclear Medicine Physics
- Radiopharmaceutical Science

Admission to the Register is determined by the ACPSEM Specialty Certification Panels being:

- The Diagnostic Imaging Medical Physics, including
  - Nuclear Medicine Physics
  - Radiology Medical Physics
- Radiation Oncology Medical Physics
- Radiopharmaceutical Science

The relevant ACPSEM Specialty Certification Panel shall assess each application for admission to the Register to determine whether a Candidate meets the standard specified for registration. To the extent that an objective assessment is required, the candidate will be judged based on the ACPSEM Specialty Certification Panels' perception of the competencies of Qualified Medical Physics Specialists or Radiopharmaceutical Scientists working within the specialty at that time.

The ACPSEM Specialty Certification Panel may process applications in any way they see suitable and may delegate responsibilities to a subcommittee or individual examiner to process applications, including investigation, assessment and recommendations to the Panel. In addition, the ACPSEM Specialty Certification Panel may deem it necessary throughout the process for:

1. Assessment from alternative or additional referees.
2. A report on the candidate's achievements and competency prepared by one or more of the ACPSEM Specialty Certification Panel representatives who may visit the candidate's place of work to interview the applicant and assess their current and/or previous work role(s), responsibilities and level of achievements as detailed in the application.
3. Any other means necessary to determine whether the candidate meets the required standard, including one or more examinations.

Each of the ACPSEM Specialty Certification Panels undertakes to make a decision on an application within a reasonable time period dependent upon the case under consideration.

### 4. ELIGIBILITY FOR REGISTRATION

To be eligible for admission to the ACPSEM Register as a Qualified Medical Physics Specialist or Radiopharmaceutical Scientist, a candidate must be sufficiently qualified and experienced to practise in a safe and efficacious manner to ensure the safety of the public, staff and patients.

### **ACPSEM CERTIFIED CANDIDATES**

Candidates who apply are eligible for Registration if they have obtained ACPSEM Certification (or Accreditation) in the relevant specialty and can demonstrate:

- Achievement of Certification within the last three years;  
OR
- Achievement of Certification/Accreditation more than three years prior with evidence of:
  - Regular clinical practise since Certification/Accreditation was achieved;
  - CPD participation (in Australia, New Zealand or internationally).

### **CANDIDATES ENROLLED IN ACPSEM TEAP**

Candidates are eligible to apply for registration, when at the time of application, they are currently enrolled in TEAP and have met the requirements for ACPSEM Certification in a specialty except for:

- A) The publication requirement;  
OR
- B) The postgraduate degree requirement and are enrolled in and in the process of completing a PhD

Upon admission to the Register, candidates who have partially completed ACPSEM TEAP as specified above, will have three years to complete the publication and postgraduate degree requirements to achieve ACPSEM Certification. Registrants who do not complete ACPSEM Certification within this period, will be removed from the Register after three years.

### **ALL OTHER CANDIDATES**

See section 5 for the detailed explanation and breakdown of General Standards for Registration for “Other Candidates.”

## **5. STANDARDS FOR OTHER CANDIDATES**

Candidates with experience practising as a medical physicist and/or radiopharmaceutical scientist in a relevant specialty may apply for Registration. Specific requirements for Registration in each Specialty are published in the appendices to this policy.

Candidates are required to meet the following general standards:

#### **DEGREE QUALIFICATIONS**

- Hold an approved undergraduate degree (to Qualifications Framework Level 7 or above - usually called Bachelor) equivalent to an Australian or New Zealand degree in Science or Engineering;
- A relevant postgraduate degree (to Qualifications Framework Level 9 or above - usually called Master or PhD) specifically relevant to the specialty;
- Degree requirements may be waived if the candidate is able to demonstrate extensive work experience and meet all other requirements.

#### **EXPERIENCE**

- Experience as a practising medical physicist or radiopharmaceutical scientists in the relevant specialty as specified in relevant appendices 1-4.

#### **COMPETENCY REQUIREMENTS**

- Demonstrated equivalence to the competencies within the relevant ACPSEM TEAP program and maintenance of currency through CPD activities as prescribed in relevant appendices 1 – 4.

## PROFESSIONALISM

- Evidence of understanding of the patient-centred environment and the personal abilities and limitations of the Candidate in undertaking their work;
- Evidence of previous compliance with ethical standards and agreement to comply with the ACPSEM Code of Ethics; and
- Evidence of contribution to medical physics and/or radiopharmaceutical science communities of practice through such things as involvement with committees and bodies relevant to the profession

## RESEARCH CAPABILITIES

- Evidence of research capabilities through such things as major reports on original work, publications in peer reviewed scientific journals or presentations at national or international scientific conferences
- Certification Panels can apply discretion in this matter, including allowing applicants 3 years to produce a publication or a presentation, equivalent to partial completion of certification requirements.

## ENGLISH PROFICIENCY

A minimum standard of command of the English language is required in order to practice Medical Physics and Radiopharmaceutical Science in Australia and New Zealand and is expected of all those who achieve ACPSEM registration, irrespective of the country in which they work. A command of written and spoken English to a standard that enables the medical physicist or radiopharmaceutical scientist to communicate effectively in professional settings is required. Details of the expected standard are set out in the ACPSEM policy *English Language Proficiency*.

## 6. STANDARDS FOR “OTHER CANDIDATES” BY SPECIALTY

Appendices 1-4 breakdown the “Other Candidates” General Requirements for Registration listed above in Section 5 according to each of the four ACPSEM specialties for which specific registration criteria apply:

- 1) Radio Pharmaceutical Science (Appendix 1);
- 2) Radiology (Appendix 2);
- 3) Nuclear Medicine (Appendix 3); and
- 4) Radiation Oncology (Appendix 4)

Specific Criteria are described against each requirement in the appendices.

## 7. RESULTS OF THE APPLICATION

The Certification Panels may make any of the following decisions at their discretion, based on the specialty registration requirements published and reviewed regularly and included in this policy, Certification Panels have developed these requirements to enable the exercise of professional judgement as to the ability of the candidate to practice safely and in accordance with professional standards to deliver the best possible outcomes for patients.

The Certification Panels will be able to make the following decisions:

### APPROVAL

The Candidate has sufficient experience, knowledge, skill and professionalism to meet all the requirements of ACPSEM Registration and is eligible for Registration.

### REFUSAL (PRESCRIBED WORK)

The Candidate meets almost all requirements but is lacking in a limited number of areas as outlined by the Certification Panel. The candidate does not need to enroll in TEAP but requires additional Certification Panel

prescribed work to be completed within a nominated period not to exceed 12 months.

#### **REJECTION**

The Candidate requires additional guided training under supervision and is encouraged to consider applying for ACPSEM Certification via TEAP, subject to meeting all relevant TEAP requirements.

#### **DISMISSAL**

The Candidate does not meet the requirements for registration and is not eligible to enroll in TEAP.

## **8. REMOVAL FROM THE REGISTER**

#### **MAINTENANCE REQUIREMENTS OF REGISTRATION NOT FULFILLED**

The Chair of the Professional Standards Board has authority to immediately suspend a Registrant and may recommend their removal from the Register to the Professional Standards Board if requirements to maintain registration (including CPD requirements) are not met. The Professional Standards Board may make the decision to remove a registrant from the register if maintenance requirements are not met.

#### **DISCIPLINARY MATTERS, PROFESSIONAL MISCONDUCT & COMPLAINTS**

Registrants may be removed from the Register by the ACPSEM Board on the recommendation of the Professional Standards Board acting as the Disciplinary Committee under the ACPSEM Constitution or as the investigation and adjudication body for the ACPSEM. Removal from the Register in these circumstances may be on the grounds of:

- Failure to comply with the ACPSEM Code of ethics;
- Professional misconduct that fails to meet the standards expected in medical environments in Australia and New Zealand;
- Upholding of complaints from the public, patients, employers, colleagues or other members; and
- Conduct likely to bring disrepute to the professions or the ACPSEM, including behaviour not related directly to professional responsibilities

In cases of potential to compromise the safety of the public, potential serious professional misconduct and disciplinary matters likely to lead to public disrepute, the PSB Chair may make an interim recommendation to the ACPSEM Board, and the ACPSEM Board may immediately remove the registrant from the register or suspend a registrant, pending the further investigation and adjudication of the matter. Where such an interim decision is made, the ACPSEM will make every effort to advise the Registrant of the interim decision and publish the interim decision, noting that further investigations and adjudication will take place.

The Professional Standards Board may approve any process to investigate and adjudicate these matters, either in a standard policy or to deal with specific cases, if required, including:

- The appointment of any panel to conduct an investigation or hearing;
- The use of external bodies or professionals to conduct an investigation or hearing; and
- The receipt of any report of proceedings, investigations or hearings from any other body for their own consideration

## **9. APPEALS**

Any decision relating to the Admission to the Register or Removal from the Register may be appealed by the candidate or registrant according to the relevant policy, which may include one or more of the following:

- 1) Appeals Policy; and
- 2) Membership policy.



Advice of an admission to or removal from the register will always include notification of the applicable Appeals policies.

## 10. TRANSITIONAL ARRANGEMENTS – LIMITED REGISTRATION

Those Registrants holding Limited Registration **as at 16<sup>th</sup> February 2018** will need to complete their requirements specified in the relevant Appendices in this policy within the time frames prescribed i.e prior to the expiry date of their limited registration, at the time of issue of the Limited Registration (as modified by any other decision of the Professional Standards Board) to achieve ACPSEM Registration under this policy. Those with the time frames prescribed exceeding beyond 31<sup>st</sup> December 2021 will need to complete their requirements specified before 31<sup>st</sup> December 2021.

Those Registrants holding Limited Registration who have not successfully completed the requirements for ACPSEM Registration will automatically be removed from the Register on expiry of the time period allowed for completion as specified in the previous paragraph.

<b>Authorised by</b>	Professional Standards Board
<b>Authorised on</b>	16 Feb 2018
<b>Effective date</b>	16 Feb 2018
<b>Review date</b>	[3 years from authorisation date]
<b>Responsible officers</b>	[as per delegation/policy framework]
<b>Enquiries</b>	[contact details of responsible officer]
<b>Version</b>	1.4
<b>Policy Domain</b>	PSB and CEO

### Document History

Version	Date	Author	Reason
1.0	16 Feb 2018	CEO and PSB Chair	New Policy
1.1	27 Feb 2019	CEO/PSB Chair	Removal of extension request in transitional arrangements
1.2	11 December 2019	CEO/PSB Chair	Addition of Requirements on Research Capabilities for Experienced applicants Addition of CP discretion to apply partial completion of certification equivalent to those who have not met research capability requirements upon the time of application.
1.3	20 Feb 2020	CEO/PSB Chair	Refinement of wording that refers to 6 years' experience to 6 years full time equivalent experience upon the time of application.
1.4	8 Dec 2020	CEO/PSB Chair	Addition of Candidate Information for Radiology and Nuclear Medicine Competency Requirements

## APPENDIX 1 Specialty – Radiopharmaceutical Science

- Persons **currently holding unlimited registration** at the time this document is issued are automatically considered as registered subject to conditions of registration (section 2).

### Requirements for Registration under Section 5

To gain admission to the Register of Radiopharmaceutical Science Specialists candidates are still required to apply for Certification. Successful application will allow automatic entry to the Register. To achieve certification, and consequent registration ALL candidates must demonstrate competency as outlined in the *APPLICATION FOR CERTIFICATION (EXPERIENCED)* which are also listed below:

#### 1. DEGREE QUALIFICATIONS

- Hold an appropriate undergraduate degree (to Australian Qualifications Framework Level 7 or above - usually called Bachelor) equivalent to an Australian or New Zealand degree in chemistry, pharmacy or an appropriate science;
- A postgraduate degree (to Australian Qualifications Framework Level 9 or above - usually called Master or PhD) specifically relevant to chemistry, pharmacy or an appropriate science (e.g. medicinal chemistry, pharmacology);
- Degree requirements may be waived if the candidate is able to demonstrate extensive work experience and meet all other requirements.

#### Evidence Required

Certified transcripts of degree qualifications with translation into English and clarification documents as required.

#### 2. EXPERIENCE

One of the following categories

- Applicants must demonstrate a minimum of 6 years FTE (or equivalent) as a radiopharmaceutical scientist upon the time of the application, OR
- Where an applicant can demonstrate chemistry-based knowledge, skills and experience **directly applicable** to the practice of radiopharmaceutical science, they may count up to three (3) years towards this requirement. Four (4) years working in an environment where radioactive substances are routinely handled, is a minimum requirement.

#### Criteria Description

The number of FTE years in above specialty corresponding to the relevant experience category, including a description of work undertaken.

#### Evidence Required

- Documentation supporting place and duration of employment with verification from associated person in authority.

#### 3. COMPETENCY REQUIREMENTS

Demonstrated competencies as outlined in the *APPLICATION FOR CERTIFICATION (EXPERIENCED)*. To gain admission to the Register of Radiopharmaceutical Science Specialists requires application for Certification. Successful application will allow automatic entry to the Register.

## Criteria Description

On submission to ACPSEM office, the Application for Certification will be forwarded to the Certification Panel for review by at least two (2) Panel members.

The nominated Panel will review and make assessment based on their knowledge of the Applicant and the facility in which they work.

The applicant will be required to attend an interview with members of the Panel, where any areas in which there is a discrepancy between the perceived grade of the Applicant and the Certification Panel will be discussed to achieve a resolution acceptable to both parties.

The applicant will be advised of any additional evidence required to support their application. There is no grading in competency, you are either competent or not competent

A hierarchy of Levels of Competency can be defined, there are three (3):

- Level 1 describes knowledge required, and is mandatory across all competencies described.
- Level 2 requires skills, the ability to perform a task.
- Level 3 describes the ability to analyse, interpret, and make judgements.

**All Level 1** Competencies are mandatory. It is therefore a requirement that a self-assessment of 2 or 3 is achieved.

These are knowledge-based competencies, so it is expected that a Grade = '1' would prompt the Applicant to undertake some reading on the subject. It is suggested that the Applicant write a brief summary on the topic to submit as evidence, or to assist your responses at interview.

**Some Level 2** Competencies are designated **Core Competencies** in that they support **Milestones** in Level 3.

**For those Key Areas you complete**, the Core Competencies are mandatory to achieve the Milestones, and must be graded '2' or '3' by both the applicant and the Certification Panel.

Other Level 2 competencies may be required by the Certification Panel, depending on their assessment of the duties of the applicant.

To complete a **Milestone**, it is essential to demonstrate competence in the Core Competencies Level 1, 2 and 3 **associated with that Milestone**.

Not all Milestones are mandatory, it is recognized that many have a focused career in one key area.

**It is considered essential to achieve the Milestones in Key Areas of Activity**, which encompass (i) working safely with radioactivity and chemicals (ii) application of analytical techniques (iii) radionuclide production (iv) research capability (v) application of professionalism to the practice of radiopharmaceutical science.

## APPENDIX 2 Specialty – Radiology

- Persons **currently holding unlimited registration** at the time this document is issued are automatically considered as registered subject to conditions of registration (section 2).
- Persons **currently holding any form of limited registration** recognized at the time this document is issued, may continue on the previously prescribed path to unlimited registration, subject to the original time constraints applied at the time of limited registration. When the person has satisfied the previously set requirements for unlimited registration, the person is automatically considered as registered subject to conditions of registration (section 2). Alternatively a person holding limited registration may also apply directly for registration as an ‘other candidate’ as described below.
- Persons **seeking registration as ‘other candidates’** should be aware that the criteria described below are for the result of registration ‘approval’ (section 7). Less stringent criteria would be applied for the other possible results such as ‘refusal (prescribed work)’ and ‘rejection’.

### Requirements for Registration under Section 5

#### 1. DEGREE QUALIFICATIONS

- Hold an appropriate undergraduate degree (to Australian Qualifications Framework Level 7 or above - usually called Bachelor) equivalent to an Australian or New Zealand degree in Science or Engineering
- A relevant postgraduate degree (to Australian Qualifications Framework Level 9 or above - usually called Master or PhD) specifically relevant to medical physics
- Degree requirements may be waived if the candidate is able to demonstrate extensive work experience and meet all other requirements

#### Evidence Required

Certified transcripts of degree qualifications with translation into English and clarification documents as required.

#### 2. EXPERIENCE

One of the following categories

- Candidates who have overseas certification in the specialty of Diagnostic and Interventional Radiology from UK, USA or Canada.
- Candidates who have overseas training in the specialty of Diagnostic and Interventional Radiology and with experience as a practicing medical physicist in the Diagnostic and Interventional Radiology specialty for at least 5 years.
- Candidates with full time equivalent experience as a practicing medical physicist in the Diagnostic and Interventional Radiology specialty for at least 6 years upon the time of the application.

#### Criteria Description

Overseas certification or the number of FTE years in above specialty corresponding to the relevant experience category.

Relevant publication in peer reviewed journal and presentation at national or international conference.

Description of work undertaken including relevant clinical experience in (i) patient and occupational dosimetry, including foetal and paediatric (ii) equipment performance testing (iii) radiation safety (iv) dose audit and subsequent optimization (v) communication including teaching.

### Evidence Required

Copy of relevant certificate certification (if applicable) e.g. (i) Institute of Physics and Engineering In Medicine (IPEM); (ii) Clinical Scientist Registration (UK); (iii) American Board of Radiology (ABR); (iv) American Board of Medical Physics (ABMP); or (v) Canadian College of Physicists in Medicine (CCPM).

Documentation of place and duration of employment with verification from associated person in authority.

List of references and presentations with examples

Copies of reports, other documents, power point presentations etc. that cover the range and depth of experience.

### 3. COMPETENCY REQUIREMENTS

Demonstrated equivalence to the competencies relevant to Diagnostic and Interventional Radiology within the ACPSEM TEAP DIMP program and maintenance of currency through CPD activities

#### Criteria Description

Competence in relevant in key clinical activities such as (i) patient and occupational dosimetry, including foetal and paediatric (ii) equipment performance testing (iii) radiation safety (iv) dose audit and subsequent optimization (v) communication including teaching.

#### Evidence Required

Successful completion of structured interview with two DICP examiners covering above competencies.

Please refer to the Document "[DIMP Registration Assessment- Candidate Information for Competency Requirements in Radiology Physics](#)" for more information.

### 4. PROFESSIONALISM

- Evidence of understanding of the patient-centred environment and the personal abilities and limitations of the Candidate in undertaking their work
- Evidence of previous compliance with ethical standards and agreement to comply with the ACPSEM Code of Ethics
- Evidence of contribution to medical physics and/or radiopharmaceutical science communities of practice through such things as involvement with committees and bodies relevant to the profession

#### Evidence Required

Successful completion of structured interview with two DICP examiners covering above competencies.

### 5. RESEARCH CAPABILITIES

- Evidence of research capabilities through such things as major reports on original work, publications in peer reviewed scientific journals or presentations at national or international scientific conferences.
- Certification Panels can apply discretion in this matter, including allowing applicants 3 years to produce a publication or a presentation, equivalent to partial completion of certification requirements.

#### Evidence Required

- Demonstrated equivalence to the research capability requirements within the ACPSEM Training Education Assessment Program (TEAP) in Diagnostic Radiology, including publication in peer reviewed scientific journal and conference presentation at recognised national or international scientific conference.
- The publication requirement may be waived if the candidate is able to demonstrate extensive experience and meet all other requirements.

## APPENDIX 3 Specialty – Nuclear Medicine

- Persons **currently holding unlimited registration** at the time this document is issued are automatically considered as registered subject to conditions of registration (section 2).
- Persons **currently holding any form of limited registration** recognized at the time this document is issued, may continue on the previously prescribed path to unlimited registration, subject to the original time constraints applied at the time of limited registration. When the person has satisfied the previously set requirements for unlimited registration, the person is automatically considered as registered subject to conditions of registration (section 2). Alternatively a person holding limited registration may also apply directly for registration as an 'other candidate' as described below.
- Persons **seeking registration as 'other candidates'** should be aware that the criteria described below are for the result of registration 'approval' (section 7). Less stringent criteria would be applied for the other possible results such as 'refusal (prescribed work)' and 'rejection'.

### Requirements for Registration under Section 5

#### 1. DEGREE QUALIFICATIONS

- Hold an appropriate undergraduate degree (to Australian Qualifications Framework Level 7 or above - usually called Bachelor) equivalent to an Australian or New Zealand degree in Science or Engineering
- A relevant postgraduate degree (to Australian Qualifications Framework Level 9 or above - usually called Master or PhD) specifically relevant to medical physics
- Degree requirements may be waived if the candidate is able to demonstrate extensive work experience and meet all other requirements

#### Evidence Required

Certified transcripts of degree qualifications with translation into English and clarification documents as required.

#### 2. EXPERIENCE

One of the following categories

- Candidates who have overseas certification in the specialty of Nuclear Medicine from UK, USA or Canada.
- Candidates who have overseas training in the specialty of Nuclear Medicine and with experience as a practicing medical physicist in the nuclear medicine specialty for at least 5 years.
- Candidates with full-time equivalent experience as a practicing medical physicist in the nuclear medicine specialty for at least 6 years upon the time of the application

#### Criteria Description

Overseas certification or the number of FTE years in above specialty corresponding to the relevant experience category.

Relevant publication in peer reviewed journal and presentation at national or international conference.

Description of work undertaken including relevant clinical experience in (i) patient and occupational dosimetry, (ii) equipment performance and image formation, (iii) clinical applications and common artefacts, (iv) radiation safety and (v) communication and teaching.

### Evidence Required

Copy of relevant certificate certification (if applicable) e.g. (i) Institute of Physics and Engineering In Medicine (IPEM); (ii) Clinical Scientist Registration (UK); (iii) American Board of Radiology (ABR); (iv) American Board of Medical Physics (ABMP); or (v) Canadian College of Physicists in Medicine (CCPM).

Documentation of place and duration of employment with verification from associated person in authority.

List of references and presentations with examples

Copies of reports, other documents, power point presentations etc. that cover the range and depth of experience.

### 3. COMPETENCY REQUIREMENTS

Demonstrated equivalence to the competencies relevant nuclear medicine within the ACPSEM TEAP DIMP program and maintenance of currency through CPD activities

#### Criteria Description

Competence in relevant in key clinical activities such as (i) patient and occupational dosimetry, (ii) equipment performance and image formation, (iii) clinical applications and common artefacts, (iv) radiation safety and (v) communication and teaching.

#### Evidence Required

Successful completion of structured interview with two DICP examiners covering above competencies.

Please refer to the Document "[DIMP Registration Assessment- Candidate Information for Competency Requirements in Nuclear Medicine Physics](#)" for more information.

### 4. PROFESSIONALISM

- Evidence of understanding of the patient-centred environment and the personal abilities and limitations of the Candidate in undertaking their work
- Evidence of previous compliance with ethical standards and agreement to comply with the ACPSEM Code of Ethics
- Evidence of contribution to medical physics and/or radiopharmaceutical science communities of practice through such things as involvement with committees and bodies relevant to the profession

#### Evidence Required

Successful completion of structured interview with two DICP examiners covering above competencies.

### 5. RESEARCH CAPABILITIES

- Evidence of research capabilities through such things as major reports on original work, publications in peer reviewed scientific journals or presentations at national or international scientific conferences.
- Certification Panels can apply discretion in this matter, including allowing applicants 3 years to produce a publication or a presentation, equivalent to partial completion of certification requirements.

#### Evidence Required

- Demonstrated equivalence to the research capability requirements within the ACPSEM Training Education Assessment Program (TEAP) in Nuclear Medicine, including publication in peer reviewed scientific journal and conference presentation at recognised national or international scientific conference.
- The publication requirement may be waived if the candidate is able to demonstrate extensive experience and meet all other requirements.

## APPENDIX 4 Specialty – Radiation Oncology

- Persons **currently holding unlimited registration** at the time this document is issued are automatically considered as registered subject to conditions of registration (section 2)
- Persons **currently holding any form of limited registration** recognized at the time this document is issued, may apply directly for registration as an ‘other candidate’. When the person has satisfied the set criteria in Requirement 5 ‘Safe to Practice’ as described below, the person is considered as registered subject to conditions of registration (Section 2).
- Persons who have achieved partial completion as defined in the “ACPSEM TRAINING, EDUCATION AND ASSESSMENT PROGRAM for MEDICAL PHYSICS and RADIOPHARMACEUTICAL SCIENCE” may apply directly for registration as an “other candidate”. This option is also available to persons who achieve the equivalent of partial completion through the closed program for certification in radiation oncology medical physics for experienced radiation oncology medical physicists. This additionally applies retrospectively to those who apply before 2021 who would have been classed as achieving partial completion prior to the implementation version 7 of the TEAP program document. When these persons can demonstrate CPD compliance, they will be considered as registered.
- Persons who have current overseas certification in the specialty of Radiation Oncology from one of the following international certification/registration bodies:
  - Institute of Physics and Engineering In Medicine (IPEM);
  - Clinical Scientist Registration (UK);
  - American Board of Radiology (ABR);
  - American Board of Medical Physics (ABMP);
  - Canadian College of Physicists in Medicine (CCPM).

When the person has satisfied the set criteria in Requirement 5 “Safe to Practice structured interview” as described below they will be considered as having met the requirements for registration.

- Persons **seeking registration as ‘other candidates’** should be aware that the criteria described below are for the result of registration ‘approval’ (section 7). Less stringent criteria would be applied for the other possible results such as ‘refusal (prescribed work)’ and ‘rejection’. Candidates who do not meet the set criteria in Requirement 5 “Safe to practice” would normally be asked to undertake self-study assessed by a written exam held every six months prior to being re-assessed by a repeat of the structured interview.

### Requirements for Registration under Section 5

#### 1. DEGREE QUALIFICATIONS

- Hold an appropriate undergraduate degree (to Australian Qualifications Framework Level 7 or above - usually called Bachelor) equivalent to an Australian or New Zealand degree in Science or Engineering
- A relevant postgraduate degree (to Australian Qualifications Framework Level 9 or above - usually called Master or PhD) specifically relevant to medical physics
- Candidates with at least ten years professional experience as a physicist may apply to ROCP for exemption from the degree requirement, evaluated on a case by case basis.



### Evidence Required

Copies of degree qualifications and academic transcript with translation into English and clarification documents as required.

## 2. EXPERIENCE

- Candidates who have current overseas certification in the specialty of Radiation Oncology from one of the following international certification/registration bodies as mentioned in the required evidence.
- Candidates who have full time equivalent experience as a practicing medical physicist in the Radiation Oncology specialty for at least 6 years upon the time of the application.

### Criteria Description

Current overseas certification, or the number of FTE years in above specialty corresponding to the relevant experience category.

Description of work undertaken including relevant clinical experience in (i) radiation safety and protection (ii) external beam radiation dosimetry (iii) external beam radiation therapy (iv) external beam treatment planning (v) brachytherapy.

### Evidence Required

Copy of relevant current certificate certification (if applicable) e.g. (i) Institute of Physics and Engineering In Medicine (IPEM); (ii) Clinical Scientist Registration (UK); (iii) American Board of Radiology (ABR); (iv) American Board of Medical Physics (ABMP); or (v) Canadian College of Physicists in Medicine (CCPM).

Documentation of place and duration of employment with verification from associated person in authority.

List of references and presentations with examples

Copies of reports, other documents, power point presentations etc. that cover the range and depth of experience.

## 3. COMPETENCY REQUIREMENTS

Demonstrated equivalence to the competencies relevant to Radiation Oncology within the ACPSEM TEAP ROMP program and maintenance of currency through CPD activities

### Criteria Description

Demonstrated competency in the core modules of the ACPSEM Radiation Oncology Medical Physics Clinical Training Guide V3 to at least level 3 for the core modules:

- 2 Radiation Safety and Protection
- 3 External Beam Radiation Dosimetry
- 4 External Beam Radiation Therapy
- 5 External beam Treatment Planning)

and to at least level 2 in the core module:

- 6 Brachytherapy

### Evidence Required

Declaration from Chief Physicist that candidate meets the competency specified above. Requirement is waived for chief physicists. If the Chief Physicist is not ACPSEM accredited/certified and is not on the ACPSEM register, then the Chief Physicist should obtain and endorse an opinion from a senior physicist who is.

Relevant evidence of competency such as curriculum vitae, internal reports, training syllabi, vendor training certificates, and referee statements. Evidence will be evaluated as specified in the document ["POLICY AND PROCEDURES FOR THE REVIEW OF COMPETENCIES COMPONENT FOR ACPSEM REGISTRATION IN RADIATION ONCOLOGY MEDICAL PHYSICS"](#).

#### 4. PROFESSIONALISM

- Understanding of the patient-centred environment.
- Ethics
- Contribution to medical physics communities.

##### Evidence Required

- Evidence of understanding of the patient-centred environment and the personal abilities and limitations of the applicant in undertaking their work, usually substantiated by referee statements.
- Evidence of previous compliance with ethical standards and agreement to comply with the ACPSEM Code of Ethics
- Evidence of contribution to medical physics and/or radiopharmaceutical science communities of practice through such things as involvement with committees and bodies relevant to the profession

#### 5. RESEARCH CAPABILITIES

- Evidence of research capabilities through such things as major reports on original work, publications in peer reviewed scientific journals or presentations at national or international scientific conferences.
- Certification Panels can apply discretion in this matter, including allowing applicants 3 years to produce a publication or a presentation, equivalent to partial completion of certification requirements.

##### Evidence Required

- Demonstrated equivalence to the research capability requirements within the ACPSEM Training Education Assessment Program (TEAP) in Radiation Oncology, including publication in peer reviewed scientific journal and conference presentation at recognised national or international scientific conference.
- The publication requirement may be waived if the candidate is able to demonstrate extensive experience and meet all other requirements.

#### 6. SAFE TO PRACTICE STRUCTURED INTERVIEW

##### Evidence Required

Applicant must pass a structured interview with two ROCP examiners. Please refer to the document ["POLICY AND PROCEDURES FOR THE SAFE TO PRACTICE ORAL EXAMINATION COMPONENT of ACPSEM REGISTRATION IN RADIATION ONCOLOGY MEDICAL PHYSICS"](#) for more information.