

**SOUTH AFRICAN
MEDICAL PHYSICS
SOCIETY**



**SUID-AFRIKAANSE
MEDIËSE FISIKA
VERENIGING**

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**PROCEDURE, RULES
AND
APPLICATION FORMS
FOR
REGISTRATION
AS A
MEDICAL PHYSICIST**

PROCEDURE, RULES AND APPLICATION FORMS FOR REGISTRATION AS A MEDICAL PHYSICIST

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1. INTRODUCTION

This document contains information regarding the rules for registration and registration procedures as well as application forms to register as a Medical Physicist.

2 REGISTRATION AS MEDICAL PHYSICISTS-IN TRAINING

The rules relating to the registration of Medical Physicists-in-training are published in the Government Gazette (22 May 1987). [**Addendum 1**].

Form 87 A [Addendum 2] must be completed by the person in training within two month following enrolment in the training programme.

This form contains the following:

- 2.1. Personal information **Form 87A p1**
- 2.2. Form signed by supervising Medical Physicists supervising in-service practical training. **Form 87A p2** The Minimum requirements for practical in service training of a Medical Physicist is given in **Addendum 3**.
- 2.3. Form completed by University administration certifying registration. **Form 87A p4**

3. REGISTRATION AS MEDICAL PHYSICIST

Important: The **date of registration** is the date on which **the correct documentation** is received by the Council. Backdating cannot be done as it is not possible in terms of the law by which the Council is registered.. Therefore be sure that relevant information such as the **registration fee** is obtained in advance. The applicant should arrange with their supervisor that all documentation **is received by the Council on or before** the qualifying date.

After complying with the rules for registration (**Addendum 4**), the following documents must be submitted [**Addendum 5 and 6**].

1. Personal information **Form 24 (Addendum 5)**
2. **Form 36 A** signed by supervising Medical **Physicist (Form 36 A)** (Addendum 6)
3. Copies of original degrees certified by a **notary public** bearing the official stamp.
4. Registration fee.
5. Copy of identity document

6. Marriage certificate (Married women only)

4 LIMITED REGISTRATION AS A MEDICAL PHYSICIST.

After complying with the rules for limited registration (**Addendum 7**), the documents as in paragraph 3 must be submitted [**Addendum 5 and 6**].

ADDENDUM 1

Rules for registration of Medical Physicists in Training

BOARD NOTICES

RAADSKENNISGEWING 25 van 1987

BOARD NOTICE 25 OF 1987

DEPARTMENT OF NATIONAL HEALTH
AND POPULATION DEVELOPMENT

THE SOUTH AFRICAN MEDICAL AND
DENTAL COUNCIL

RULES RELATING TO THE
REGISTRATION OF MEDICAL
PHYSICISTS IN TRAINING

The South African Medical and Dental Council has in terms of section 32(l)(a) of the Medical, Dental and Supplementary Health Service Professions Act, 1914 (Act 56 of 1974), made the rules set out in the Schedule hereto.

SCHEDULE

DEFINITIONS

1. In these regulations "the Act" means the Medical, Dental and Supplementary Health Service Professions Act, 1974 (Act 5b of 1974), and any expression to which a meaning has been assigned in the Act shall bear such meaning, and, unless the context otherwise indicates

"section" shall mean a section of the Act; and

"medical physicist in training" shall mean a student for a relevant honours degree recognised by the council in terms of the Act for purposes of registration as a medical physicist.

2. A medical physicist in training at a university in the Republic or an institution approved by the council shall apply to the registrar for registration as a medical physicist in training -

RAADSKENNISGEWING 25 VAN 1987

DIE DEPARTEMENT VAN NASIONALE
GESONDHEID EN
BEVOLKINGSONTWIKKELING

DIE SUID-AFRIKAANSE
GENEESKUNDIGE EN
TANDHEELKUNDIGE RAAD

REËLS BETREFFENDE DIE
REGISTRASIE VAN GENEESKUNDIGE
FISIICI IN OPLEIDING

Die Suid-Afrikaanse Geneeskundige en Tandheelkundige Raad het kragtens artikel 32(l)(a) van die Wet op Geneeshere, Tandartse en Aanvullende Gesondheidsdiensberoepes, 1974 (Wet 56 van 1974), die reëls in die Bylae hiervan uiteengesit, uitgevaardig.

BYLAE

WOORDOMSKRYWINGS

1. In hierdie regulasies beteken "die Wet" die Wet op Geneeshere, Tandartse en Aanvullende Gesondheidsdiensberoepes, 1974 (Wet 56 van 1974), en het enige uitdrukking waaraan 'n betekenis in die Wet toegeken is, daardie betekenis, en, tensy uit die samehang anders blyk, beteken -

"artikel" 'n artikel van die Wet; en

"geneeskundige fisikus in opleiding" 'n student vir 'n toepaslike honneursgraad deur die raad kragtens die bepalings van die Wet erken vir die doel van registrasie as geneeskundige fisikus.

2. 'n Student aan 'n universiteit in die Republiek of inrigting deur die raad goedgekeur, moet by die registrateur aansoek doen om registrasie as geneeskundige fisikus in opleiding -

(1) in the case of a medical physicist in training enrolled at such university or Institution approved for training as a medical physicist in training, within two months following such enrollment; or

(2) in the case of a medical physicist in training who on the date of publication of these regulations has already enrolled at such university or institution approved for training, within two months after the date of publication of these regulations.

3. An application for registration as a medical physicist in training shall be made on a form obtainable from the registrar for this purpose and shall be accompanied by -

(1) a birth certificate; or, if a birth certificate cannot be furnished, by a baptismal certificate or such other proof of his age and correct names as may be to the satisfaction of the registrar;

(2) a relevant bachelor's degree or an equivalent qualification approved by the council:

(3) a certificate indicating that such medical physicist in training has enrolled for a relevant honours degree, which certificate shall state the date on which he was so enrolled; and

(4) a registration fee of R10.

4.(1) Where the name of a medical physicist in training has been removed from the register and he resumes study for a relevant honours degree after having interrupted such study for a period of one year or longer, an application for his name to be restored to the register shall be made within two months of re-enrollment for such study and such application shall be accompanied by -

(1) In die geval van 'n geneeskundige fisikus in opleiding wat by sodanige universiteit of inrigting goedgekeur vir opleiding as 'n geneeskundige fisikus in opleiding inskryf. binne twee maande nadat hy aldus ingeskryf het; of

(2) in die geval van 'n geneeskundige fisikus in opleiding wat op die datum van afkondiging van hierdie regulasies reeds by sodanige universiteit of inrigting goedgekeur vir opleiding ingeskryf is, binne twee maande na die afkondiging van hierdie regulasies.

3. 'n Aansoek om registrasie as 'n geneeskundige fisikus in opleiding moet gedoen word op 'n vorm wat vir hierdie doel van die registrateur verkry kan word en moet vergesel gaan van -

(1) 'n geboortesertifikaat; of, indien 'n geboortesertifikaat nie voorgelê kan word nie, 'n doopseel of ander bewys in verband met sy ouderdom en korrekte name tot tevredenheid van die registrateur;

(2) 'n toepaslike baccalaureusgraad of ekwivalente kwalifikasie goedgekeur deur die raad;

(3) 'n sertifikaat wat aandui dat die geneeskundige fisikus in opleiding hom vir 'n toepaslike honneursgraad ingeskryf het, welke sertifikaat die datum moet aandui waarop hy aldus ingeskryf is;

(4) registrasiegeld van R10.

4.(1) 'n Geneeskundige fisikus in opleiding wie se naam van die register geskrap is en wat sy studie vir 'n toepaslike honneursgraad na 'n onderbreking van een jaar of langer hervat, moet aansoek om terugplasing van sy naam op die register doen binne twee maande na herinskrywing vir sodanige graad, welke aansoek vergesel moet gaan van-

(a) a certificate to the effect that such medical physicist in training has thus re-enrolled;

(b) his original certificate of registration or a certified copy thereof issued by the council for which a fee of 50c shall be payable; and

(c) an amount of R1.

(2) Subject to the provisions of section 19 of the Act, the name of a registered medical physicist in training who interrupts his studies for a period of more than one year but annually states in writing his intention of continuing his studies for a relevant honours degree shall not be removed from the register of medical physicists in training.

5. Where an application for the registration of a name on the register of medical physicists in training or for its restoration thereto together with documents and fees referred to in regulation 3 or 4, as the case may be, is submitted after the date specified in regulation 2 or 4, as the case may be such application shall be subject to an additional registration fee of 50c in respect of each month or part of a month by which the application is submitted later than the date so specified.

6. The registrar shall issue a registration certificate to a medical physicist in training who has been registered in terms of these regulations or whose name has been restored to the register of medical physicists in training.

7. The name of a medical physicist in training shall be removed from the register as soon as proof is furnished to the satisfaction of the registrar that such medical physicist in training has discontinued his studies in medical physics within the Republic.

(22 May 1981)

(a) 'n sertyfikaat wat aandui dat sodanige geneeskundige fisikus in opleiding aldus heringeskryf is;

(b) sy oorspronklike registrasiesertyfikaat of 'n gesertyfiseerde afskrif daarvan wat deur die raad uitgereik word en waarvoor 'n bedrag van 50c betaalbaar is; en

(c) 'n bedrag van R1.

(2) Behoudens die bepalings van artikel 19 van die Wet word die naam van 'n geregistreeerde geneeskundige fisikus in opleiding wat sy studie vir langer as een jaar onderbreek maar jaarliks skriftelik sy voorneme verklaar om weer met sy studie vir 'n toepaslike honneursgraad voort te gaan, nie van die register van geneeskundige fisici in opleiding geskrap nie.

5. 'n Aansoek om registrasie of terugplasing van 'n naam op die register van geneeskundige fisici in opleiding, tesame met die dokumente en die gelde vermeld in regulasie 3 of 4 na gelang van die geval, wat ingedien word na die datum vermeld in regulasie 2 of 4, na gelang van die geval, is onderworpe aan 'n bykomende registrasiegeld van 50c ten opsigte van elke maand, of gedeelte van 'n maand, wat die aansoek later as die betrokke datums ingedien word.

6. Die registrateur reik 'n registrasiesertyfikaat uit aan 'n geneeskundige fisikus in opleiding wat kragtens hierdie regulasies geregistreeer is, of wie se naam op die register vir geneeskundige fisici in opleiding teruggeplaas is.

7. Die naam van 'n geneeskundige fisikus in opleiding word van die register van geneeskundige fisici in opleiding geskrap sodra bewys tot tevredenheid van die registrateur voorgelê is dat hy sy studie in geneeskundige fisika in die Republiek gestaak het.

(22 Mei 1987)

ADDENDUM 2

Form 87A

Application for registration as Medical Physicist in Training

ADDENDUM 3

RECOMMENDED MINIMUM REQUIREMENTS FOR PRACTICAL IN-SERVICE TRAINING OF MEDICAL PHYSICISTS.

1. REQUIREMENTS FOR MEDICAL PHYSICS OF NUCLEAR MEDICINE

Measurement of radioactivity and gamma spectrum analysis: Principles and clinical application of spectrum analysis for gamma counting systems.

Scintillation camera: Quality control of scintillation cameras.

Computer processing: Principles and processing of planar and tomographic Nuclear Medicine studies.

Quality assurance in radiopharmacy: Principle of operation and quality control of source calibrator.

Radiation protection: Internal radiation dosimetry (MIRD), be on par with all aspects of radiation protection in Nuclear Medicine including safe handling of radioactive substances and decontamination procedures.

2. REQUIREMENTS FOR MEDICAL PHYSICS OF DIAGNOSTIC RADIOLOGY

Conventional X-ray imaging: Be on par with the practical implementation of all aspects of the quality assurance programme.

Computed tomography systems: Be on par with the practical implementation of all aspects of the quality assurance programme.

Radiation protection: Perform dose estimate calculations for different types of examinations especially for pregnant woman, be on par with all aspects of radiation protection in Diagnostic Radiology.

3. REQUIREMENTS FOR MEDICAL PHYSICS OF RADIATION ONCOLOGY

Dosimetry: The use and application of the following equipment or methods i.e. different ionisation chambers, thermoluminescent dosimeters, film dosimetry, water phantom systems.

Radiation protection: Design of treatment rooms, calculation of shielding and monitoring of radiation levels for teletherapy units, simulators, CT scanners and after loading systems.

Teletherapy treatment systems: Acceptance testing and complete calibration of accelerators, cobalt units and kilovolt units, quality assurance including field flatness, symmetry, energy measurement and isocenter.

Brachytherapy and after loading systems: Treatment planning, acceptance testing, and quality assurance.

Treatment planning: Input of accelerator data; know principles of planning algorithms; dose calculation and verification of treatment plans; verification of immobilisers, shielding blocks and compensators; quality assurance.

ADDENDUM 4

RULES FOR THE REGISTRATION OF MEDICAL PHYSICISTS

The council may register as a medical physicist; any applicant who satisfies the professional board and the council that he/she complies with the requirements set out in rules 1(1) and rule 1(2) or 2(1) and 2(2):

1. He/she shall hold the following qualifications in Medical Physics and undergone the following in-service practical training:

- 1(1) He shall hold one of the following qualifications:

Examining authority and qualification

Abbreviation for registration

REPUBLIC OF SOUTH AFRICA

University of Cape Town. Medical Faculty

Bachelor of Science in Medicine (Honours) in Medical Physics

BSc (Med) (Hons) in Medical Physics (Cape Town)

University of the Orange Free State, Medical Faculty

Bachelor in Medical Science Honours in Biophysics

B.Med.Sc. (Hons.)(Biophysics) (UOFS)

University of Pretoria, Medical Faculty

Baccalaureus Scientiae Honores specialising in Medical Physics

BSc(Hons) Medical Physics (Pret)

Medical University of Southern Africa

Honours Bachelor of Science (Medical) in Medical Physics

BSc (Med)(Hons) in Medical Physics (Medunsa)

University of Stellenbosch

Medical Faculty

Bachelor of Science in Medical Sciences with Honours (with Medical Physics as field of study)

B.Sc. MED. SCI.HONS. (Stell)

Science Faculty

Bachelor of Science with Honours (with Physics as field of study)

B.Sc.HONS. (Stell)

University of the Witwatersrand, Science Faculty

Bachelor of Science (Hons) in the subject of Experimental and Theoretical Physics

B.Sc.(Hons) Physics

- 1(2) Subsequent to having obtained the qualification prescribed in rule 1(1), he/she must complete two years of experiential training in an institution approved for this purpose by the professional board and the council under supervision of a medical physicist registered with the council for not less than three years: Provided that, of the two years training prescribed in this paragraph, one year of training may be at the discretion of the professional board and the Council, be completed while such applicant was enrolled part-time for an honours degree mentioned in rule 1(1).

- 2(1) Any honours degree in Physics approved by the professional board and the council, and a certificate from a university mentioned in paragraph 1(1) that he/she has completed the following additional subjects:
- (i) Medical Physics for diagnostic radiology
 - (ii) Medical Physics for radiation oncology.
 - (iii) Medical Physics for nuclear medicine;
 - (iv) Medical Physics for radiation protection
- 2(2) Subsequent to having obtained the certificate prescribed in rule 2(1), he/she must complete two years of experiential training in an accredited institution approved for this purpose by the professional board and the Council under supervision of a medical physicist registered with the Council for not less than three years: Provided that the two years experiential training prescribed in this paragraph, may be completed simultaneously if an applicant was enrolled part-time for the certificate referred to in rule 2(1).
3. Any applicant who applies to have her/his name restored to the register following a period of more than 5 years during which the applicant was not registered must comply with the requirements of the professional board before registration will be approved. The applicant must complete a period of experiential training and an examination at a university mentioned in paragraph 1(1).
- 4 Notwithstanding anything contained in the above rules it shall be lawful for the professional board and the council to register as medical physicist any person who has not fully complied with these rules, if the professional board and the council, after inquiry, is satisfied that such person is competent to practice as a medical physicist.

ADDENDUM 5

Form 24

Application for registration of a Medical Physicist: Personal Information

ADDENDUM 6

Form 36A

Application for registration of a Medical Physicist (Ionising Radiation): Certification of practical in-service training.

ADDENDUM 7

Rules for registration: Limited Practice

No R 278330

November 1990

THE SOUTH AFRICAN MEDICAL AND DENTAL COUNCIL

The Minister of National Health and Health Services: House of Assembly has in terms of section 32A of the Medical, Dental and Supplementary Health Service Professions Act, 1974 (Act 56 of 1974), on the recommendation of the South African Medical and Dental Council, made the regulations set out in the Schedule hereto.

REGULATIONS RELATING TO THE REGISTRATION OF CERTAIN CATEGORIES OF MEDICAL PHYSICISTS

1. The following categories of persons are hereby prescribed in terms of section 32A of the Act and may be registered in terms of that section:
 - (a) Medical physicists engaged by universities and scientific institutions approved by the council;
 - (b) medical physicists employed in a full-time or part-time capacity by the State, the provincial administrations, a local authority or any other employer approved by the professional board and the council: Provided that the contract of service in respect of the part-time employment of a medical physicist shall provide that the hours of service relating to the part-time appointment shall not be less than half the hours of service of the corresponding full-time appointment;
 - (c) medical physicists who are engaged in post-graduate study or research in the Republic and as such hold appointments which are not of a permanent nature.
1. The persons referred to in regulation 1 may be registered with the council as medical physicists if they hold any of the qualifications which may, from time to time, be accepted by the council in terms of section 32A of the Act.

No R 278330

November 1990

DIE SUID-AFRIKAANSE GENEESKUNDIGE EN TANDHEELKUNDIGE RAAD

Die Minister van Nasionale Gesondheid en van Gesondheidsdienste: Volksraad het kragtens artikel 32A van die Wet op Geneeshere, Tandartse en Aanvullende Gesondheidsdiensberoepe, 1974 (Wet 56 van 1974), op aanbeveling van die Suid-Afrikaanse Geneeskundige en Tandheelkundige Raad, die regulasie uiteengesit in die Bylae hiervan uitgevaardig.

REGULASIES BETREFFENDE DIE REGISTRASIE VAN SEKERE KATEGORIEë GENEESKUNDIGE FISICI

1. Die volgende kategorieë persone word ingevolge artikel 32A van die Wet voorgeskryf en kan ingevolge daardie artikel geregistreer word:
 - (a) Geneeskundige fisici in diens van universiteite en wetenskaplik inrigtings wat deur die raad goedgekeur is;
 - (b) geneeskundige fisici wat in voltydse of deelydse hoedanigheid deur die Staat, die provinsiale administrasies, of 'n plaaslike owerheid of enige ander werkgewer wat deur die beroepsraad en die raad goedgekeur is: Met dien verstande dat die dienskontrak met betrekking tot die deelydse indiensneming van 'n geneeskundige fisikus moet bepaal dat die diensure verbonde aan die deelydse aanstelling minstens die helfte moet wees van die diensure verbonde aan 'n ooreenstemmende voltydse aanstelling;
 - (c) geneeskundige fisici wat in die Republiek met nagraadse studie of navorsingswerk besig is en as sodanig 'n aanstelling het wat nie van permanente aard is nie.
2. Die persone bedoel in regulasie 1 kan by die raad as geneeskundig fisici geregistreer word indien hulle in besit is van enige van die kwalifikasies wat die raad van tyd tot tyd kragtens artikel 32A van die Wet aanvaar.

