



**HEALTH PROFESSIONS COUNCIL OF SOUTH AFRICA
PROFESSIONAL BOARD FOR RADIOGRAPHY AND
CLINICAL TECHNOLOGY**

**GUIDELINES FOR EXAMINATIONS OF FOREIGN QUALIFIED
CLINICAL TECHNOLOGISTS IN THE CATEGORY PULMONOLOGY**

A. INTRODUCTION

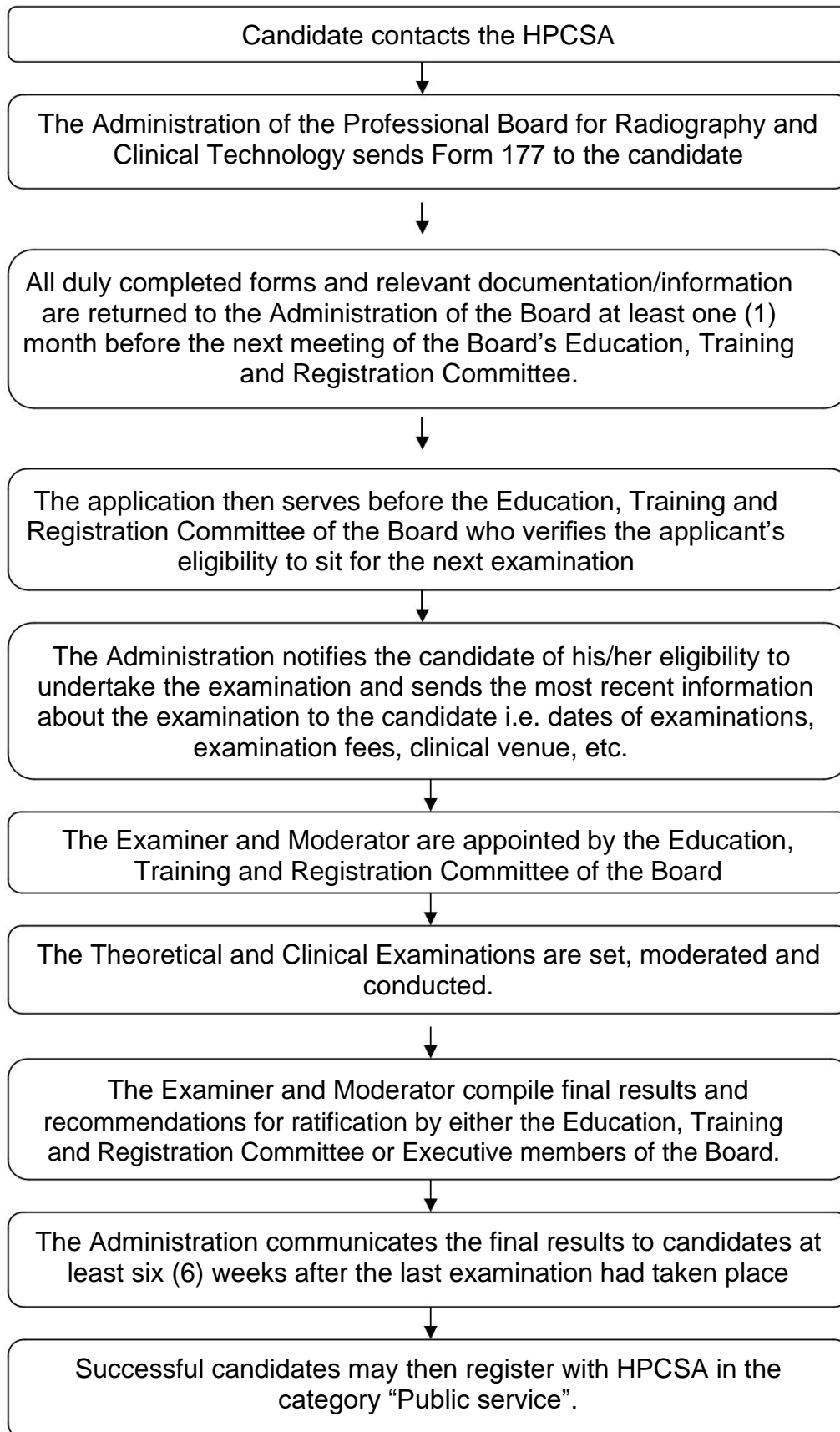
All individuals who practice any of the health care professions incorporated in the scope of the HPCSA are obliged by the Health Professions Act, 1974, to register with the HPCSA, as such failure to do so, constitutes a criminal offense.

In terms of the policy of the Professional Board for Radiography and Clinical Technology all foreign qualified candidates are required to challenge the entry examination in order to determine their eligibility to register with HPCSA. Registration with HPCSA does not imply in any way that employment is guaranteed. The onus for finding employment in the **public** service, rests with the candidate.

B. ADMISSION CRITERIA

1. Only candidates who qualify for registration (if applicable) to practice in the country where they have obtained their first Clinical Technology qualification will be allowed to sit for the examination.
2. Basic schooling of at least twelve (12) successful years must precede the training in clinical technology.
3. The duration of the **clinical technology** training should have been a minimum of three (3) successful years. Should the duration of the training be less than three (3) years, the candidate should be advised to approach an accredited training institution to apply to upgrade their qualification. The rules and requirements of that institution will apply. The onus for arranging this rests solely with the candidate and is not a function of the Board.
4. The candidate's clinical technology training should be of an academically acceptable standard and must be comparable to the academic standard of the South African Qualifications. The candidate should further have had adequate clinical training in line with the South African requirement.

C. APPLICATION AND EXAMINATION PROCESS



D. PURPOSE OF EXAMINATION

The purpose of the examination is to establish that all foreign qualified clinical technologists applying to work in South Africa are able to -

1. apply knowledge and skills to perform and adapt techniques applicable to the clinical condition of the patient;
2. care for the patient responsibly and efficiently to ensure that the welfare and safety of the patient is maintained;
3. apply appropriate South African health and safety regulations, ethical principles and codes of practice in performance of techniques;
4. demonstrate competency in the execution of techniques within the field of Pulmonology.
5. display knowledge and understanding of equipment used;
6. operate equipment effectively and competently;
7. express an understanding of the principles and techniques of pulmonology related techniques;
8. display knowledge of Quality Assurance and Quality Control with regards to pulmonology related equipment function;
9. exhibit a level of insight and ability to apply skills and techniques within the context of a pulmonology technologist;
10. apply knowledge appropriately to clinical technology related procedures;
11. apply basic diagnostic and intervention skills to pulmonology related procedures;
12. display an awareness and understanding of the South African health care system.

E. ADMISSION TO THE EXAMINATION

1. A duly completed Form 177 with relevant documentation must be submitted two (2) months prior to the set date of the examination.
2. Approval for entry to the examination must be granted by the Education, Training and Registration Committee of the Professional Board for Radiography and Clinical Technology.
3. A non-refundable examination fee **must** be paid to HPCSA four (4) weeks prior to the set date of the examination. Failure to pay the fee will result in exclusion from the examination.

F. VENUE OF EXAMINATION

1. The examination will be conducted at a venue approved by the Professional Board for Radiography and Clinical Technology.
2. Candidates are responsible for their own traveling, meal and accommodation costs.

G. FORMAT OF EXAMINATION

The examination is held twice a year or as necessary, at the discretion of the Education, Training and Registration Committee.

Part 1: Theoretical Examination

1. This examination consists of a three (3) hour paper that is set at the **exit level** of the South African Clinical Technology qualification.

This examination covers an integration of the following **exit** learning areas: anatomy, physiology, pathology, principles and practice of clinical technology in pulmonology, instrumentation and techniques based on pulmonology principles, patient and healthcare management, ethics, contemporary social issues, restorative justice,

Part 2: Clinical Examination/Assessment

- 1 The venue for the clinical examination will be approved by the Education, Training and Registration Committee of the Board.
- 2 During this examination, candidates are required to perform one or two (2) full sets of clinical procedures patients.
- 3 The assessment criteria for the clinical examination will include (but **is** not limited to) the following:
 - Equipment preparation
 - Correct identification of the patient and checking of all patients details and Infection control
 - Patient preparation for pulmonology related treatment.
 - Patient care and communication
 - Pulmonology related techniques in lab and theatre
 - Safety checks and protection including trouble shooting use of equipment
 - Competent and safe use of equipment and accessories

Correct protocol followed

Assessment of use of knowledge of anatomy, pathophysiology and pharmacology in clinical application during surgical and related procedures.

Application of corrective measures to improve patient outcomes.

Communication skill with all related health professionals within the team.

Assessment of accurate record keeping.

H. CALCULATION OF FINAL MARK

A pass mark of 65% for the clinical examination and 50% for the theory examination must be obtained as a final mark.

I. FULFILLMENT FOR REGISTRATION

A pass mark of 65% for the clinical examination **AND** 50 % for the theory examination must be obtained as final marks. **BOTH** must be achieved in order to pass.

If a candidate fails one of the two components, they will be considered as having failed the Board examination, upon which ONE re-assessment for that specific component may be afforded to such candidates. If both components are failed, the candidate may be offered ONE re-assessment. The re-assessments will take place on a date set by the Education, Training and Registration Committee of the Board.

A candidate is therefore required to obtain **both minimum pass marks** as stated above in order to register with HPCSA.

A candidate will only be allowed to sit for the entry examinations for a maximum of two (2) attempts.

J. BRIEF OVERVIEW OF 3rd YEAR TECHNIQUE SYLLABI

1. Anatomy and Physiology
2. Research methodology
3. Health Care Management
4. Restorative Justice
5. Contemporary social issues
6. Pathophysiology for pulmonology
7. Pharmacology for pulmonology
8. Clinical Technology Practice in pulmonology
9. Instrumentation and techniques for pulmonology

Biomedical Apparatus

1. Laboratory equipment
2. Blood gases
3. Lung function equipment
4. Flow volume equipment

5. Maintenance of apparatusTidal Breathing Analysis
6. Skin Prick Testing (Allergy testing)
7. Helium/ Nitrogen Washout studies
8. Single Breath Nitrogen Washout studies
9. MIPs and MEPs
10. Bronchoscopy procedures
11. Perform 6MWT
12. Sleep Studies (Polysomnography)
13. Pulmonary Compliance Studies (Static and Dynamic)
14. Exercise Studies
15. Impulse Oscillometry

Clinical Practice

- Pulmonary function laboratory safety
- Pulmonary function measurement
- Lung volume evaluation
- Ventilation tests and artificial ventilation
- Basic flow-volume curves
- Gas distribution evaluations
- Diffusion tests
- Bronchodilators
- Diagnostic bronchoscopy
- Allergy investigations
- CEPT (cardio pulmonary exercise testing)
- Provocation tests
- Sleep studies
- Nitric oxide testing

K. SUGGESTED READING LIST

Title	Author/s	Publisher

L. REMARKING OF SCRIPTS

Only candidates who had obtained a pass rate of 45-49 % in the theoretical examination may apply for their scripts to be remarked.

A remarking fee of 50 % of the examination fee will be charged for a re-mark.

The Committee Coordinator may be contacted for information about the fee involved and procedure to follow.

Should a candidate pass the theoretical examination but fail the clinical examination, one further attempt will be allowed (See section I above).

NOTE: Currently the examinations are conducted by the RCT Board of the HPCSA, however in the future they will be conducted on behalf of the Board by approved higher education institutions and that institution's rules and policies will apply.

M. ADDITIONAL INFORMATION

For further enquiry contact:

The Committee Coordinator
Professional Board for Radiography and Clinical Technology
HPCSA
P.O. Box 205
PRETORIA
0001

Email: RCTBoard@hpcsa.co.za

Tell: +27 12 338 9403

Fax: 012 338 9403