APPLICATION FOR THE REGISTRATION OF ADDITIONAL PROFESSIONAL DESIGNATION(S) FOR PROFESSIONAL BODIES ALREADY RECOGNISED BY SAQA

SOUTH AFRICAN INSTITUTE OF PHYSICS (SAIP)

Name of Professional Body	South African Institute of Physics (SAIP)
Statutory or Non-Statutory Body	Non-Statutory
Sector	Physical, Mathematical, Computer and Life Sciences
Physical Address	Building 19A, CSIR Campus, Meiring Naude Road, Brumeria
Application Approved by Board/Council	Yes
Application Signed by CEO / Registrar/ Board Chairperson	Yes
Registered Designation	Professional Physicist
Designation Applied for	Professional Industrial and Physical Science Technologist (PrPhysTECH)
Date of Recognition	18 February 2015
Date of Gazette Notice	01 December 2017

BACKGROUND

The SAIP was established in July 1955 as not-for profit and voluntary professional body for physics in South Africa. SAIP provides a home for nurturing physics talent, a platform for professionals to network and a vehicle to promote physics education and its application for socioeconomic development of South Africa. SAIP has grown and diversified to the extent that there are a number of specialist divisions within the SAIP, concentrating on more specific fields, whilst participating in the general activities of the Institute.

CRITERIA FOR REGISTRATION OF A PROFESSIONAL DESIGNATION

The criteria for the awarding of the additional Professional Designation below comply with the SAQA *Policy & Criteria for Recognising a Professional Body and Registering a Professional Designation for the Purposes of the National Qualifications Framework Act, Act 67 of 2008* and the designation complements those already registered, creating a designation pathway.

Designation Title: Professional Industrial and Physical Science Technologist (PrPhysTECH)

Underlying Qualification(s)	NQF Level 6 to 8 qualification related to Physics
Experiential Learning and Practical Experience	Candidates with the following qualifications must have the following experience: • A minimum of two years' experience in an industrial or

	applied physics-related technical activity for holders of a certificate or equivalent qualification in physics or related field; or • A minimum of one and half years' experience in an industrial or applied physics-related technical activity for candidates with a Diploma or equivalent qualification in physics or related field; or • Candidates with a Bachelor's degree or Advanced Diploma or equivalent qualification in physics or related field must have ; or • An additional minimum of one year experience in an industrial or applied physics-related technical activity for candidates with an Honours Degree; or • A minimum of six months experience in an industrial or applied physics-related technical activity for a candidate with a Post-graduate Diploma or equivalent qualification in physics or related field; or • training or experience which, in the opinion of the Council, is equivalent to any of the above; Industrial and applied physics-related experience: Work experience will be considered physics related if it uses physics directly, or if it significantly utilises physics modes of thought such as the approach to problem-solving developed in physics education and/or derived from experience in working as an industrial physics technician or physical science technician, regardless of whether the experience is in academia, industry, government, or elsewhere. Relevant experience may include; assisting senior scientists and engineers by collecting, managing, analysing, and interpreting a wide array of physical science information and applying physics-based scientific methods, techniques, concepts and principles in testing, measurement, monitoring, design, and installation of equipment, products and processes.
Board/ Admission Examination/Assessment	Applicants must submit the following for consideration by the SAIP professional standards committee who will evaluate if candidate can be admitted or not; • A completed application form signed by a current SAIP member as a proposer, or, if they are not aware of any SAIP member who can endorse them, then the application must be signed by their immediate supervisor; • A detailed CV showing physics related experience and contactable referees; • Two reference reports on the prescribed reference template; • Copies of certificates showing physics related training; • If qualifications are not granted by a South African Institution, applicants must submit a SAQA certificate of evaluation for their qualifications • The SAIP professional standards committee may request additional information if they are not satisfied with information supplied.

Continuing Professional Development (CPD) Requirements	Continuous Professional Development (CPD) shall run in 5-year cycles, during which period each member shall be required to accumulate a minimum of 25 credits in order to retain certification. In any one year, the member shall be required to accumulate a minimum of 5 credits.
Application of Recognition of Prior Learning (RPL)	Constitution section 2.2 (f) (v) states that a candidate can have training or experience which, in the opinion of the Council, is equivalent to any of the above qualifications in order to be considered for RPL. During an extended period of working in a field as described above, a person may attend courses, undertake directed reading, conduct their own learning programme via the internet and acquire on the job experiential based training and learning. Recognition of Prior Learning (RPL) will be done through the Universities.
Designation competences: Professional Industrial and Physical Science Technologist (PrPhysTECH) must be able to assist senior scientists (Pr.Phys) and engineers by collecting, managing, analysing, and interpreting a wide array of physical science information. They apply physics-based scientific-methods, techniques, concepts and principles in testing, measurement, monitoring, design, and installation of equipment, products, and processes.	

SAIP has registered the following designation:

Designation Title	Underlying Qualification(s)	Experiential Learning and Practical Experience
Professional Physicist	Bachelors or equivalent degree in Physics NQF Level 7 Honours or equivalent degree in Physics NQF Level 8 Masters or equivalent degree in Physics NQF Level 9	• A member with a 3-year Bachelors or equivalent degree in Physics minimum of six years' experience in a Physics-related activity • A member with a Honours or equivalent degree in Physics minimum of five years' experience in a Physics-related activity • A member with a Masters or equivalent degree in Physics minimum of three years' experience in a Physics-related activity Work experience will be considered physics- related if it uses physics directly, or if it significantly utilizes physics modes of thought such as the approach to problem-solving developed in physics education and/or derived from experience in working as a physicist, regardless of whether the experience is in academia, industry, government, or elsewhere. This includes management of physics-related work, supervision of physics related physics-related experience shall be based on the following criteria: i. practical experience; ii. management skills, where applicable; iii. understanding

Designation Pathway

- **Professional Industrial and Physical Science Technologist (PrPhysTECH)**
- Professional Physicist

RECOMMENDATION

It is recommended that the following additional SAIP Professional Designation be registered on the NQF:

Designation Title
Professional Industrial and Physical Science Technologist (PrPhysTECH)