

## REGISTRATION OF MEDICAL PHYSICISTS WITH AHPCZ

According to the international requirements, e.g. those from the International Atomic Energy Agency (IAEA) a Medical Physicist is one who fulfills the following minimum criteria

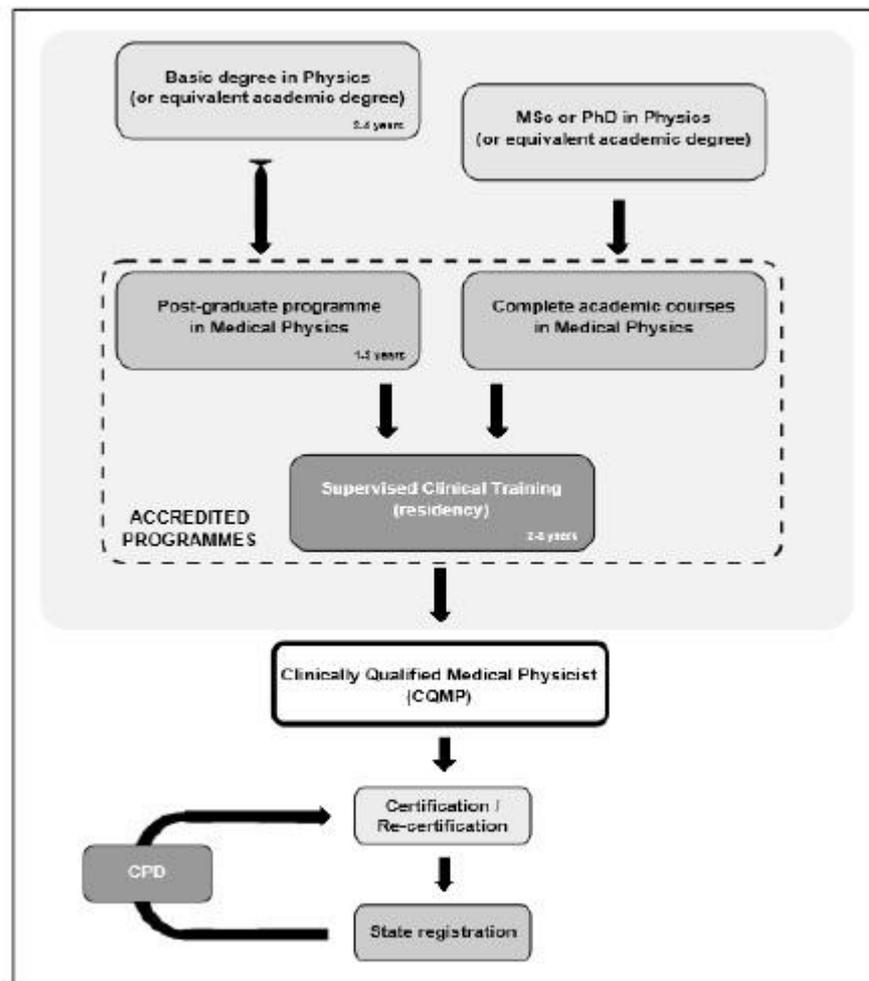


Figure 1.1 Training and Qualification pathways for Medical Physicists

### Explanations for Requirements according to figure 1.1

#### **1<sup>st</sup> requirement**

An equivalent degree to Physics is a graduate qualification, at degree level, that has the following courses:

At least 2 years of undergraduate level mathematics were completed successfully including:

- Applied Linear Algebra
- Advanced Calculus
- Complex Variables
- Differential Equations
- Numerical methods

The following physics topics should be covered during undergraduate study. If not, they should be completed prior to entry into the medical physics program:

- Electricity and Magnetism
- Atomic Physics/Nuclear Physics
- Quantum Mechanics
- Classical Mechanics
- Solid State Physics
- Modern Physics and Relativity
- Thermodynamics / Statistical Physics
- Signal Processing
- Physics of Fluids and Gases
- Optics
- Computational Physics/Computer Programming

***Thus it is mandatory to interrogate the academic transcript of the degree to ensure that the qualifications fulfil the above mentioned conditions prior to admission to postgraduate in Medical Physics. A holder of a Bsc hons in Physics/Medical Physics/Applied Physics or Msc in Physics/Applied Physics has automatic entry to Msc In Medical Physics.***

### **2<sup>nd</sup> Requirement**

Medical Physics Clinical Attachment.

The candidate must have completed at least 1 year of supervised clinical attachment. For registration the candidate must submit a Clinical Attachment portfolio duly signed by a qualified clinical Medical Physicist.

### **3<sup>rd</sup> Requirement**

#### **Internship/Supervised Residency**

After obtaining a qualification according to the above academic requirements, one must have gone through a Medical Physics internship (2 years). To be registered, the candidate must submit an internship portfolio approved by qualified Physicist.

One qualifies for internship as a holder of a Bsc hons in Physics/Medical Physics/Applied Physics, Msc in Physics/Applied Physics or PhD in Physics or its equivalent provided one has had a 1 year Medical Physics clinical attachment during their academic studies.

After the above has been fulfilled, then one can be registered as a Qualifield Medical Physicist.