

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

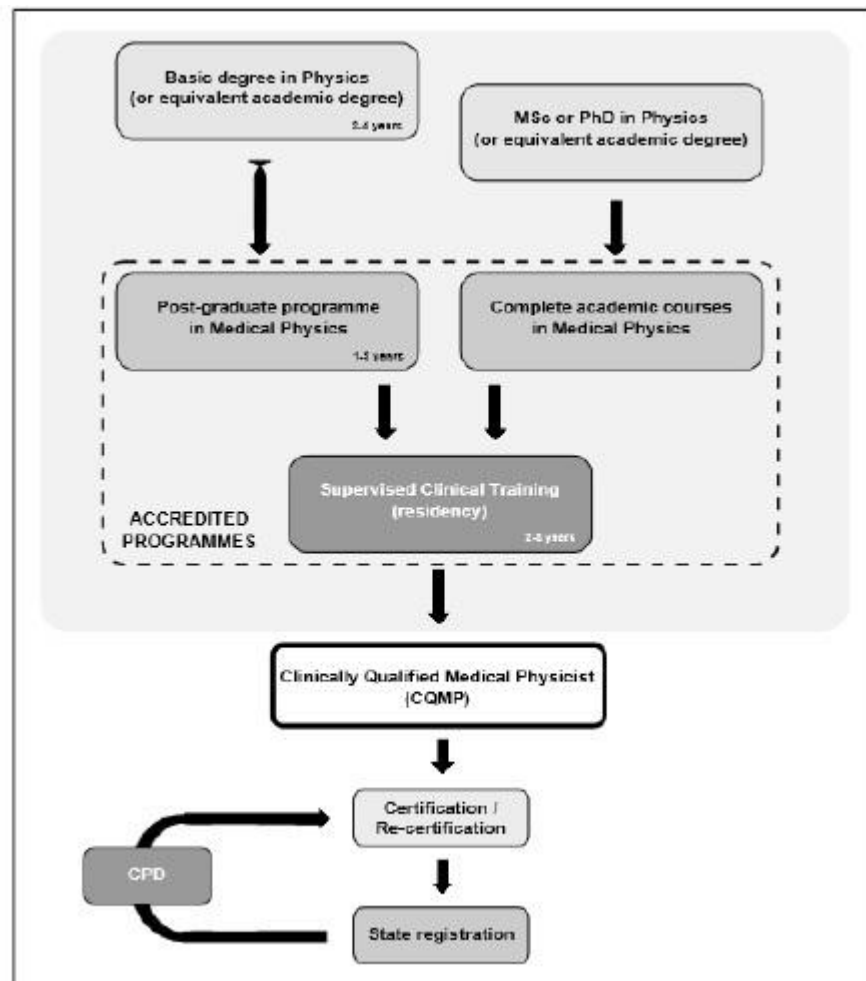


Figure 1.1 Training and Qualification pathways for Medical Physicists

Explanations for Requirements according to figure 1.1

1st 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 honours in Physics/Medical Physics/Applied Physics or Msc in Physics/Applied Physics has automatic entry to Msc In Medical Physics.

2nd 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.

3rd 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 honours 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 Qualified Medical Physicist.