

### Vysvětlení, kdo je dle EU RP 174 Medical Physics Expert

různé úrovně kvalifikace/odbornosti/specializace pro profesi "radiologický fyzik" a označení odbornosti specialistů v Evropě a v ČR

Profese	Medical physicist		
Označení specialisty v EU		Clinically Qualified Medical Physicist** (CQMP)	Medical Physics Expert
EQF* level	EQF level 7	intermediate between EQF levels 7 a 8	EQF level 8
Zdroj	EU Radiation Protection No. 174	IAEA Human Health Series No. 25 i EU RP 174	EU Radiation Protection No. 174
Délka studia	5 let radiologická fyzika, resp. ukončené magisterské vzdělání matematicko-fyzikálního oboru+doplnění znalostí na úroveň radiologického fyzika	plus 2 roky	plus další 2 roky a následně pokračuje celoživotní vzdělávání
Forma studia	Akreditovaný studijní program	Strukturovaný akreditovaný studijní program	Strukturovaný akreditovaný studijní program
Zakončení studia (EU)	Master degree	Recognition	Recognition
Zaměření	Všechna (RT i NM i RDG)	Jedno (RT nebo NM nebo RDG)	Jedno (RT nebo NM nebo RDG)
Platnost	Navždy	Navždy	5 let, poté recertifikace
<b>Analogie v ČR</b>	<b>Radiologický fyzik</b>	<b>Klinický radiologický fyzik</b>	<b>Nemáme</b>
Délka studia	5 let RF nebo 5 let VŠ vzdělání matematicko-fyzikální + AKK	2 roky	
Forma studia	Akreditovaný studijní program RF nebo doplnění vzdělání formou AKK	Strukturovaný akreditovaný studijní program	
Zakončení studia (ČR)	Státní závěrečná zkouška	Atestace	
Zaměření	Všechna (RT i NM i RDG)	Jedno (RT nebo NM nebo RDG)	
Platnost	Navždy	Navždy	

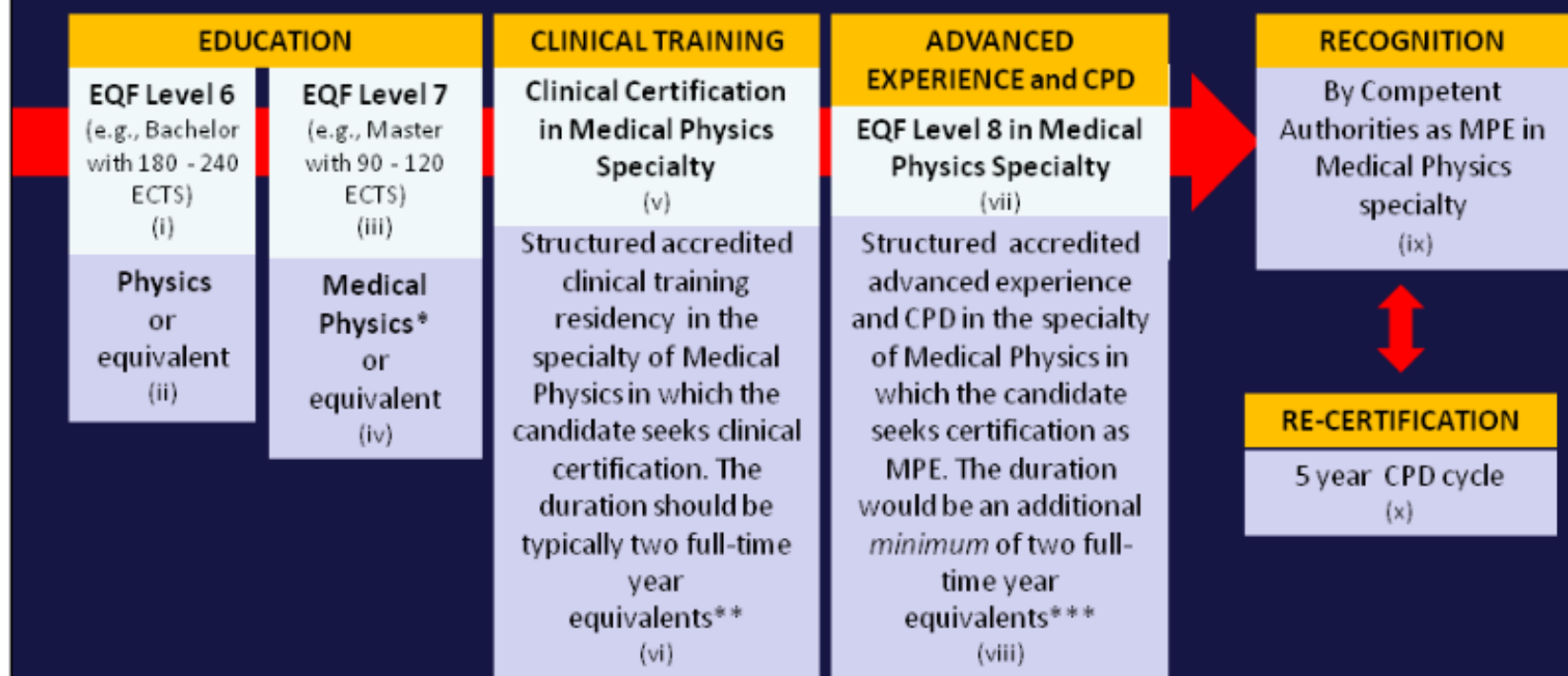
\*EQF - European Qualifications Framework [5]

\*\* Clinically Qualified Medical Physicist“ dle [3] = kvalifikovaný radiologický fyzik, který smí pracovat bez odborného dohledu dle [1] a [2]

# Qualification Framework for the Medical Physics Expert (MPE) in Europe

MPE: "An individual having the knowledge, training and experience to act or give advice on matters relating to radiation physics applied to medical exposure, whose competence to act is recognized by the Competent Authorities" (Revised BSS)

The Qualifications Framework is based on the European Qualifications Framework (EQF). In the EQF learning outcomes are defined in terms of Knowledge, Skills, Competences (KSC) (European Parliament and Council 2008/C 111/01)



\* Should include, as a minimum, the educational components of the Core KSC of Medical Physics and the educational components of the KSC of the specialty of Medical Physics (i.e., Diagnostic & Interventional Radiology or Nuclear Medicine or Radiation Oncology) for which the candidate seeks clinical certification. When this element of specialization is not included it must be included in the residency.

\*\* The EQF level of the residency is intermediate between EQF levels 7 and 8.

\*\*\* In countries where the MPE is required to be certified in more than one specialty of Medical Physics the number of years would need to be extended such that the MPE will achieve level 8 in each Specialty.

(vii)	<p>The MPE in a given specialty of medical physics is a professional with clinical certification in a specialty of medical physics who has achieved the highest level of expertise in that particular specialty. The medical physics professional through <i>structured advanced</i> experience, ongoing extensive CPD and commitment places the KSC at the highest possible level i.e., EQF level 8.</p>	<p>The qualification level for the MPE has been set at EQF Level 8 because the MPE requires knowledge at the most advanced frontier of a field of work and at the interface between fields, the most advanced and specialised skills and techniques, including synthesis and evaluation, required to solve critical problems in research / innovation and to extend / redefine existing professional practice, demonstrate substantial authority, innovation, autonomy, professional integrity and sustained commitment to the development of new ideas or processes at the forefront of work contexts including research (Council of EU, 2008). To carry out activities requiring expert action, involvement or advice with authority and autonomy and which are based on current best evidence (or own scientific research when the available evidence is not sufficient), the MPE requires frontier knowledge in own specialty of medical physics and at the interface between physics and medicine. The MPE requires specialised skills and techniques in radiation protection</p>
-------	---	--

**Podklady:**

- [1] European Commission Radiation Protection No. 174 - European Guidelines on Medical Physics Expert (EU RP 174), 2013.
- [2] The European Federations of Organisations for Medical Physics. Policy Statement no. 7.1: The roles, responsibilities and status of the medical physicist including the criteria for the staffing levels in a medical Physics Department approved by EFMOP Council on 5th February 2016, *Physica medica* 32 (2016), 533-540.
- [3] Roles and Responsibilities, and Education and Training Requirements for Clinically Qualified Medical Physicists No. 25, IAEA, 2013.
- [4] Terms of Reference of the EFOMP Examination Board, 2016.
- [5] Recommendation of the European Parliament and of the Council of 23 April 2008 on the establishment of the European Qualification Framework for lifelong learning. Official Journal of the European Union C111/1, 2008.

