

# **Overview on ENETRAP projects**

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History

- ENETRAP series: projects limited duration focusing on specific deliverables disseminate through website, presentations, ...
- EUTERP: evolution from project to sustainable platform for RP trainers, RPE, RPO, other RP professionals - associates information exchange mainly through website, newsletter, workshops
- ENETRAP 6FP (2005-2007)
- EUTERP Platform (2006-2009)
- ENETRAP II 7FP (2009-2012)
- EUTERP Foundation 2010
- ENETRAP III 7FP (2014-2018)



Concern

Decrease in number of high-level competences in radiation protection. However, increased attention to RP is needed: more technologies (and more frequently used) rely on ionizing radiation

European approach in job recognition and competence building to guarantee safe use of ionizing radiation and facilitate workers mobility

- Increase awareness that knowledge of RP science is important (at all levels; in medical, industry, research, ...)
- Actions
- Support of young students and professionals in their need to gain and maintain high level radiation protection competences
  - Develop good infrastructure for education and training, both at policy and implementation/workfloor level



## Legal framework

- Council Directive 96/29/EURATOM, laying down Basic Safety Standards for the protection of the health of workers and the general public against the dangers arising from ionizing radiation + Communication 98/C 133/03, concerning its implementation (QE)
- In revision → RPE, RPO, MPE in Council Directive 2013/59/EURATOM

#### Common European goal:

- Clear and uniform terminology on professions in RP
- Common qualification criteria
- Common mutual recognition system for acquired competences of RP professionals
- Facilitating lecturer, learner and worker mobility across the EU

➡ Common RP and safety culture

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In answer to legal requirements: almost all EU member states and candidate states provide an E&T program, based on European BSS and the definition of "qualified expert"

## BUT:

- Wide variety in terminology (QE, RPE, RPO, personnes compétentes, ...)
- Wide variety of national approaches for E&T programs and for the recognition of "qualified experts" in EU member states

First approach to harmonization by ENETRAP 6FP (2005-2007)

# First approach to harmonization by ENETRAP 6FP Most important realisations

**EDUCATION** ■ Establishment of Consortium of Universities → Launch of European Master in RP

TRAINING



Partners CEA-INSTN FZK-FTU BfS CIEMAT NRG ENEA HPA-RPD UJF Grenoble NHC Scotland ENETRAP questionnaire, resulted in an overview on:

- A. numbers of RPE's and RPO's;
- B. identification of practices;
- C. national capabilities for E&T in RP;
- D. regulatory requirements;
- E. recognition.
- Introduction of preliminary "ENETRAP training scheme" Development of first E-learning module via MOODLE Advise on implementation of OJT/WE

Supported by end-users and providers (via EUTERP)

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#### ENETRAP II 7FP (2009-2012)



Partners CEA-INSTN KIT BfS CIEMAT NRG ENEA HPA-RPD ENEN Association ITN BME UPB Results of ENETRAP 6FP were good, however, more work was to be done:

- Primarily dealing with RPE and RPO, but interested in medical field and the approaches used for MPE
- Towards European <u>reference</u> training scheme for RPE, serve as basis for mutual recognition
- Introduction of ECVET approach, learning outcomes in terms of K, S, C
- Towards sustainable results via EUTERP and HERCA (and other members of the "ENETRAP II Advisory Group")

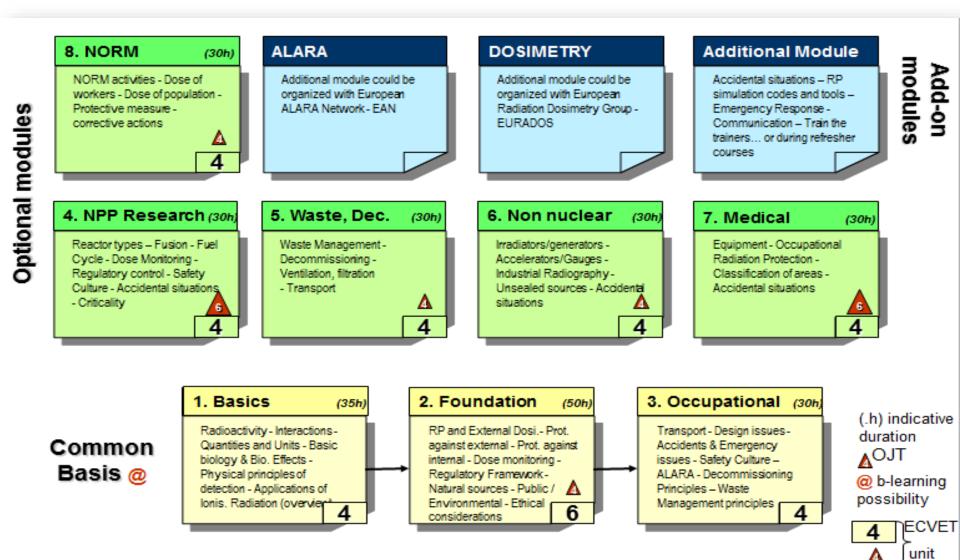


ENETRAP II Main results - RPE

*European Reference Training Scheme for RPEs*, with introduction of ECVET Learning Outcomes (K, S, C, in total >400)

- Basic modules + Specialized modules depending on field of work
- OJT + WE
- Special attention to "non-technical" skills
- LO's developed in consultation with people "in the field"







ENETRAP II Main results wrt RPE

Text book and (limited) cyber book

Preliminary management tool for LO's developed (originally not foreseen, needs to be further developed)

Pilot session given at KIT

- Relative low attendance
- Feedback from those who did attend: good training!
- "Stamp", "European valorization/endorsement", ... was missing



ENETRAP II Main results wrt RPO

#### Requirements for RPO

- Main areas of RPO work are considered and examples of appropriate training contents are given, divided into professional categories or competence groups, covering the following areas:
  - handling of radioactive materials and practices on installations producing ionizing radiation (incl. accelerators and cyclotrons)
  - >medicine, dentistry
  - >operation of x-ray equipment (technical, medical (without patients), veterinary medicine)
  - > RPO in nuclear power plants/research reactors
- No recognition required



New and innovative topics for the specialized modules, further development of training material

#### Most important:

- Wait for official new BSS with definition of RPE/RPO/MPE
- Still lack "official" European endorsement
- Via EUTERP / HERCA: ENETRAP II work is used in the HERCA task force on E&T
- Guidance to implement the BSS definitions in E&T
- Implementation / demonstrate practical feasibility of mutual recognition
- > Attention for RPE + RPO + workers!
- > Attention for initial training + continuous training



#### ENETRAP III 7FP (2014-2018)



- "Think tank" activities with "Consultancy Group" (stakeholders)
- Propose text "guidance" for implementation of RPE and RPO E&T
- Test methodologies for recognition and mutual recognition in practice
- Develop new training courses for RPE working in medical area, NPP, geological disposal
- Develop a train-the-trainer event



# ENETRAP work always discussed at EUTERP Workshops

#### Next EUTERP Workshop:

#### September 30 – October 2, 2015 | Athens | Greece

## https://go.app.sckcen.be/EUTERPWorkshop2015



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