Overview on ENETRAP projects

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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)
Driving forces of ENETRAP projects

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

Actions

- Increase awareness that knowledge of RP science is important (at all levels; in medical, industry, research, ...)
- 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
Driving forces of ENETRAP projects

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
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**

- 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)
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 reference 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”)

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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
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
Challenges beyond ENETAP II

- 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