



# **Education and training in radiation protection: initiatives of the EUTERP Foundation**

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*08/10/2013, Melodi Workshop - E&T Forum, Brussels*



- ☐ What is EUTERP and how is it connected to the ENETRAP 6FP and 7FP projects
- ☐ How is EUTERP involved in European policy
- ☐ What can be shared between / is of common interest to EUTERP and MELODI



## EUTERP Platform

- ❑ 2006-2009: EC DG TREN supported a 3 year contract to create a **Platform** for E&T in radiation protection; main objectives were:
  - to facilitate the transnational access to vocational E&T infrastructures;
  - to harmonize the criteria and qualifications for, and mutual recognition of, qualified RP professions;
  - to remove obstacles for the mobility of these professions within the European Union;
  - to give advice for the revision of BSS.
- ❑ Platform of stakeholders (E&T providers, end-users, authorities, TSO, ...)
- ❑ Coordinated by NRG, 5 board members, 6 observers (IAEA, EC, IRPA, EFOMP, IOE)
- ❑ Sustainability was a prerequisite, “bottom-up” approach



- ❑ Communication with Platform members via
  - Website
  - Newsletters
  - Annual workshops
- ❑ Input and feedback to ENETRAP 6FP (2005-2007) and ENETRAP II 7FP (2009-2012) projects
- ❑ **Main result** of EUTERP Platform: advice concerning new descriptions on RPE and RPO for revision of BSS (Council Directive 96/29/EURATOM)



## → EUTERP Foundation



- ☐ 2010: **EUTERP Foundation**: legal entity under Dutch law was established
- ☐ Main objectives:
  - Contribute to the development of a European policy with regard to education, training and competence development in RP
  - Encourage and support harmonization of E&T requirements for RPEs, RPOs and workers, facilitating mobility of these professionals
  - Act as central focus point for the sharing of information on training events, European standards, latest developments, and all other related information
- ☐ Newsletters, workshops, [www.euterp.eu](http://www.euterp.eu)



## ENETRAP projects

- ❑ EUTERP and ENETRAP are connected:
  - EUTERP = legal entity, sustainable, acts as umbrella organization which distributes ENETRAP results, discusses them, and gives feedback
  - ENETRAP = projects where work is being carried out, limited in duration
- ❑ ENETRAP results ↔ EUTERP initiatives/results



## Main results – Education – ENETRAP 6FP

- ❑ Education: establishment of a consortium of European universities  
→ launch of the **European Master in Radiation Protection**  
(<http://www.master-emrp.eu>)
  - one-year specialized training in the second year of the masters degree Health Engineering and Medicine
  - 60 ECTS (455 hours + 6 months internship)
  - lead by INSTN (CEA), université Joseph Fourier (Grenoble)



## Main results – Training – ENETRAP 6FP

- ❑ ENETRAP questionnaire (2006), 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, based on “common denominator” of European training for “RPE”
- ❑ Development and testing of first e-learning modules via MOODLE platform



## ENETRAP II 7FP

- ❑ Build further on previous results:
  - Primarily dealing with RPE and RPO, but interested in medical field and the approaches used for MPE
  - Focus on professional development
  - Towards European reference training scheme for RPE, serve as basis for mutual recognition
  - Introduction of ECVET approach, learning outcomes in terms of knowledge, skills, competences
  - Towards sustainable results via EUTERP and HERCA

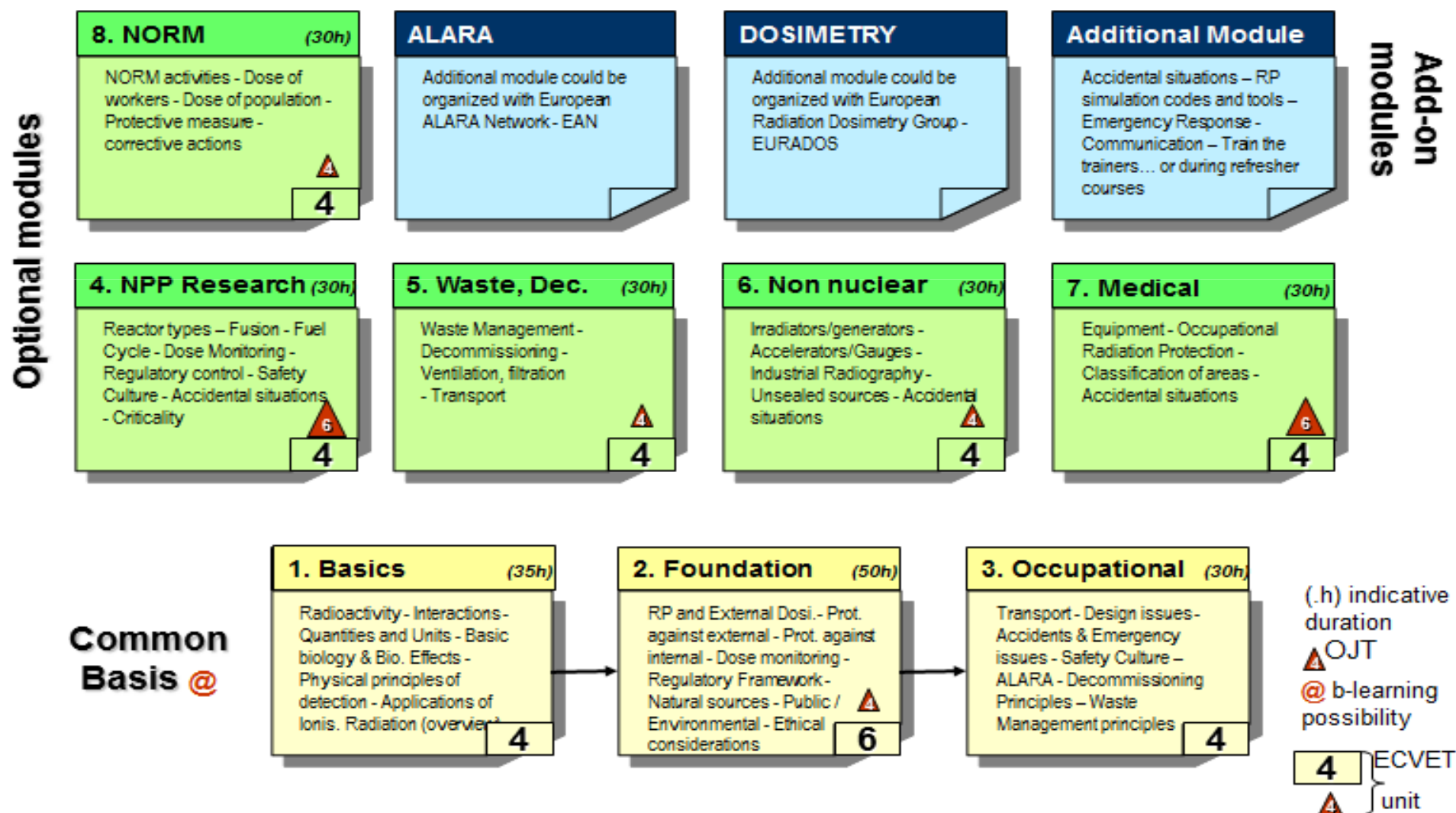


## Main results – ENETRAP II 7FP

- ❑ **European Reference Training Scheme for RPEs**, with introduction of ECVET Learning Outcomes (K, S, C, in total 413)
  - 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”
  - To do: to be endorsed/used by authorities as “reference”
- ❑ **Text book and (limited) cyber book**
- ❑ **Preliminary management tool for LO’s developed** (originally not foreseen, needs to be further developed)



# ENETRAP II RPE training scheme





## Main results – ENETRAP II 7FP

- ❑ Pilot session given at KIT
  - Relatively low attendance
  - Feedback from those who did attend: good training!
  - “Stamp”, “European valorization”, ... was missing
  
- ❑ European registration system for Continuous Professional Development in radiation protection
  - Similar for all fission 7FP projects: ECVET approach will be used



## Main results – ENETRAP II 7FP

### ❑ 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



## Further developments

- ❑ New and innovative topics for the specialized modules, further develop 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 via HERCA/EUTERP
- Attention for RPE + RPO + workers!
- Attention for initial training + continuous training



## Exchange MELODI – EUTERP

- ❑ Course modules are available
- ❑ Make use of our connection to the stakeholders
- ❑ EUTERP focuses on professional development rather than on education → share this experience
  - Recognition processes / policy matters / connection with HERCA
  - Introduction of ECVET



## Next EUTERP Workshop

Progress will be reported at the next EUTERP Workshop

May 7-9 2014, Rovinj, Croatia

<http://ean-euterp.ekoteh.hr/>

