

ENETRAP II : WP 2



Requirements for the Recognition Radiation Protection Experts

J Stewart (HPA, UK)
F Draaisma (NRG, NL)
P Livolsi (CEA –INSTN, France)
E. Fantuzzi (ENEA, Italy)
A. Schmitt-Hannig, (BfS, Germany)

ETRAP, November 2009

Objectives



- To define the requirements for national and mutual recognition of RPEs within EU Member States.
- To provide guidance with respect to national schemes for recognition of RPEs.
- To develop a mechanism for the mutual recognition of RPEs between Member States

Background



- Requirement in BSS Directive for recognition of Qualified Expert/Radiation Protection Expert
- ENETRAP (FP6)
 - Wide variety in approach to “national recognition”
 - Currently, systems for “mutual recognition” are rare !
- Mutual recognition
 - Essential for movement between Member States
 - Will only function if national systems for recognition share fundamental criteria !
 - 1st step in ENETRAP II – consider national recognition

The RPE



“Persons having the knowledge, training and experience needed to give radiation protection advice in order to ensure effective protection of individuals, whose capacity to act as a radiation protection expert is recognized by the competent authorities.”

The RPE



“Persons having the knowledge, training and experience needed to **give radiation protection advice** in order to ensure effective protection of individuals, whose capacity to act as a radiation protection expert is recognized by the competent authorities.”

The RPE



“Persons having the **knowledge, training and experience** needed to give radiation protection advice in order to ensure effective protection of individuals, whose capacity to act as a radiation protection expert is recognized by the competent authorities.”

The RPE



“Persons having the knowledge, training and experience needed to give radiation protection advice in order to ensure effective protection of individuals, whose capacity to act as a radiation protection expert **is recognized by the competent authorities.**”

Expected role of the RPE



Role

- To provide comprehensive, professional advice
 - Including protection measures to restrict exposure
- To provide this advice to the employer/licensee
 - *Independent* advice
 - RPE need not be available at all times

Primary Duties

- To provide advice ! Eg
 - Plans for new installations, interpretation of information/data
 - Controlled and supervised areas
 - Classification of workers
 - Area & personal monitoring programmes/instrumentation
 - etc

Objective of Recognition ?



Requirement

Recognition of the “capacity to act” of the RPE

Objective

To provide employers/licensees with confidence that any person recognized as an RPE has core competence in giving advice over a wide range of radiation protection issues.

Beware !

Being “recognized” is not the same as being “suitable” !!

Aspects to be Considered



Education

RPE

Training



Experience

Question 1



? Do you agree that the key aspects for consideration in the process of RPE recognition are :

- Education
- Training
- Experience ?

Criteria for Core Competence



Education

An education to Bachelor degree level in

- Radiation protection, or
- Physical/biological science

OR

An equivalent qualification

OR

Equivalent level of experience

Question 2



? Do you agree that the options presented represent an appropriate educational level for the RPE ?

If not, why not ?

And

What alternative would you suggest ?

Training

- *Knowledge and understanding* of each of the topics in the basic/reference syllabus (*ENETRAP FP6*)
- *Knowledge* of operational radiation protection methods
 - Interpretation/application of radiation protection data
 - Radiological measurements
 - Control procedures (work involving potential for significant exposure)
- *Ability* to give advice to duty holders

Question 3



? Do you agree that this list represents those aspects that can be addressed by (additional) training ?

? If not , would you add or subtract from the list ?

Criteria for Core Competence



Practical Competence

- **Legislation**

- Understanding of national regulatory requirements

- Practical measures for compliance with regulations

- Ability to interpret requirements in practical situations

- **Hazard & Risk Assessment**

- Understanding of the principles and practical application of hazard/risk assessment

- Ability to identify & assess risks of exposure (inc,.projected exposure)

- **Optimization**

- Ability to identify appropriate control procedures

- Ability to interpret/apply data

...ctd

...ctd

- **Monitoring**

Practical understanding of measurement of dose & dose –rate

“ “ of measurement/assessment of contamination

Ability to interpret measurements to identify control procedures

Ability to interpret personal dosimetry data

- **Classification**

Ability to identify need for area classification

Ability to identify access appropriate access control measures (areas)

Ability to identify need for classification /personal monitoring (workers)

Question 4



?Do you agree that these represent the appropriate practical competences for an RPE ?

If not, what would you add or subtract from the list ?

Essential components for a national scheme for RPE recognition.



- Foundation in regulation
- Authoritative “body” for recognition
 - Regulatory body?
 - Conferred authority ?
- Process for administration
- *Established criteria for core competence*
 - Guidance as to required portfolio of evidence
 - Guidance as to required “maturity”
 - Statement of limitations
- Period of validity of recognition
 - Re-recognition process ?

Assessors !

Question 5



? Would you agree with the proposed essential components for a national scheme for RPE recognition ?

If not, what would you add or subtract from the list ?

ENETRAP II : WP 2



Requirements for the Recognition Radiation Protection Experts

Please give us your views !