

ENETRAP III: European Guidance on RPE and RPO – Implications for Industrial Radiography?

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ENETRAP = European Network on Education and Training in Radiation Protection

ENETRAP III - WP 7: Development of Guidance to support the implementation of E&T requirements of the Euratom BSS for RPE and RPO

- The Euratom BSS (2013/59/Euratom) specify requirements for the Radiation Protection Expert (RPE) and for the Radiation Protection Officer (RPO).
- Member States must translate the goals and requirements into their national legislation before February 2018.

ENETRAP III - WP 7

Background:

EU requirements may appear quite clear, however

⇒ varying approaches in implementation on the national level

Work in ENETRAP and ENETRAP II projects on RPE + RPO

⇒ results: presented and discussed in EUTERP Workshops

⇒ input: concepts of RPE and RPO in the Euratom BSS

ENETRAP III - WP 7 - Considerations

DG ENERGY

- Euratom BSS (2013)
- SET-Plan Roadmap E&T (Strategic Energy Technology, 2014)

DG Education & Culture

- ET 2020 (Strategic framework for European Cooperation in Education and Training, 2009)
- EQF/ECVET (European Qualification Framework; European Credit System for Vocational Education and Training, 2008/2009)

DG Research and Innovation

- Euratom FP7 and H2020 projects

=> HERCA TG E&T (2013) - Recommendations



ENETRAP III - WP 7

Development of the Guidance Document

- **WP 7 Meeting on 24 September 2014 in Brussels :**

Documents (BSS requirements, RP 174 + 175, results of the activities of the HERCA Task Force on E&T) were reviewed

- **WP 7 Meeting on 12/13 February 2015 in Munich :**

Discussion of the first draft of the guidance document; document was sent to HERCA in May 2015

- **HERCA Workshop RPE-RPO on 6-8 July 2015 in Paris**

- **EUTERP Workshop, 30 Sep – 2 Oct 2015 in Athens**

=> Comments included, text consolidated, doc finalised

ENETRAP Guidance Document

Title - European Guidance on the Implementation of the Requirements of the Euratom BSS with respect to RPE and RPO

Scope - This report :

- provides guidance to regulatory authorities and professional bodies on the roles of the RPE and RPO, as defined in the BSS.
- specifies the knowledge, competencies and practical skills of RPEs and RPOs for the effective implementation of their roles
- specifies the core training requirements for RPEs and RPOs
- describes a process for the national recognition of RPEs
- provides guidance on the development of mutual recognition processes between Member States.

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2. Overview of the Euratom BSS Requirements for RPE and RPO

2.1 Role, functions and duties of the Radiation Protection Expert (RPE)

2.1.1 Competence

2.1.2 Suitability

2.2 Role, functions and duties of the Radiation Protection Officer (RPO)

2.2.1 RPO Competence and suitability

2.2.2 RPO recognition and appointment

2.3 Interactions between the RPE and other professionals in RP

2.4 Requirements for education and training for RPE and RPO

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3. The Radiation Protection Expert (RPE)

- 3.1 The activities of the RPE *(Table 1: Advice expected from the RPE (topics for advice and associated activities))*
- 3.2 RPE development: core competence *(Table 2: Basic requirements for core competence)*
 - 3.2.1 Education
 - 3.2.2 Training and development *(Table 3: Required Skills and competencies for the RPE (for each topic for advice))*
 - 3.2.3 Work/operational Experience / on-the-job training
- 3.3 Arrangements for RPE Recognition
 - 3.3.1 Establishment of an RPE Recognition Scheme/Framework
 - 3.3.2 Routine Operation *(Table 4: Evidence of competence), (Table 5: Examples of suitable evidence)*
- 3.4 Transferability/acceptance of RPE status between Member States *(Table 6: Aspects to be addressed in accepting RPE Status in other MS)*
 - 3.4.1 Criteria for mutual recognition
- 3.5 Mechanism for mutual recognition
- 3.6 European Qualification arrangements *(Table 7: Descriptors defining EQF levels)*



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4 The Radiation Protection Officer (RPO)

4.1 The duties of the RPO *(Table 8: Primary duties of the RPO)*

4.2 Core competence requirements *(Table 9 and 10: Core learning outcomes for RPO)*

4.3 Educational requirements

4.4 Training requirements

4.5 Work experience required

4.6 Further requirements

4.7 Assessment of competence

4.8 Maintenance of competence

4.9 Recognition and appointment

4.10 Mechanism for mutual recognition



ENETRAP Guidance Document

- **Dec 2015:** Submission of the Guidance Document to EC as ENETRAP III Deliverable
- **Next step:** Art. 31 Group of Experts Meeting, May 2016 => Guidance to be published in the Radiation Protection Series of the EC



Implications for Industrial Radiography ?

- ENETRAP III Guidance Document provides general guidance for all applications of ionising radiation
- **ENETRAP II** (<http://enetrap2.sckcen.be/en/Documents>)
 - WD 3.1 Report on Requirements for RPO Competences
 - **WD 3.2 Report on European Reference Standards for RPO Training**
 - WD 4.1 Statement of initial and refresher Training Requirements for RPE
 - WD 4.2 Reference Standards for RPE Training

Examples for Industrial Radiography

WD 3.2 Report on European Reference Standards for RPO Training

Handling and storage of sealed radioactive sources requiring a license in industrial radiography and radioscopy				
<ul style="list-style-type: none"> On-site surveillance (restricted responsibilities) 	14 h 1 (Basic course)		18 h 4 (Special course: Industrial radiography and radioscopy: surveillance of on-site handling)	
<ul style="list-style-type: none"> Control of the entire practice 		26 h 2 (Basic course)		12 h 5 (Special course: Industrial radiography and radioscopy: surveillance Control of the entire practice)

WD 3.2 Report on European Reference Standards for RPO Training

Radiation Protection Course Contents

1 Basic course for RPO dealing with basic scenarios - 13 h

- Legal foundations, recommendations and guidelines 0.5 h
- Tasks and duties of the Radiation Protection Officer 3.5 h
- Scientific foundations. 4.0 h
- Radiation protection measurement techniques 1.5 h
- Radiation protection technology 1.0 h
- Radiation protection safety 0.5 h
- Demonstration exercise 1.0 h
- Exercises 1.0 h

WD 3.2 Report on European Reference Standards for RPO Training

Radiation Protection Course Contents

2 Basic course for RPO dealing with complex scenarios - 26 h

- Legal foundations, recommendations and guidelines 1.0
- Tasks and duties of the Radiation Protection Officer 4.0
- Scientific foundations 6.0
- Radiation protection measurement techniques 4.0
- Radiation protection technology 3.0
- Radiation protection safety 2.0
- Practical training 4.0
- Exercises 2.0



WD 3.2 Report on European Reference Standards for RPO Training

Radiation Protection Course Contents

4 Special course “Industrial radiography and radioscopy: on-site surveillance” for RPO dealing with basic scenarios - 18 h

- (successful completion of Course 1 is required)
- Legal foundations, recommendations and guidelines 0.5
- Tasks and duties of the Radiation Protection Officer 0.5
- Scientific foundations 0.5
- Radiation protection measurement techniques 1.5
- Radiation protection technology 6.0
- Radiation protection safety 1.0
- Practical training 2.0
- Demonstration exercise 2.0
- Exercises 4.0

WD 3.2 Report on European Reference Standards for RPO Training

Radiation Protection Course Contents

5 Special course “Industrial radiography and radioscopy: control of the entire practice” for RPO dealing with complex scenarios - 12 h

- (successful completion of Course 2 is required)
- Legal foundations, recommendations and guidelines 0.5
- Tasks and duties of the Radiation Protection Officer 0.5
- Scientific foundations 0.5
- Radiation protection measurement techniques 1.0
- Radiation protection technology 2.0
- Management of high activity sources incl. testing 1.0
- Radiation protection safety 1.0
- Practical training 1.0
- Demonstration exercise 0.5
- Exercises 3.0
- Examination 1.0

Thank you

Questions?