

## Field: RADIATION PROTECTION AND WASTE MANAGEMENT

# Topic: EU ACQUIS AND RADIATION PROTECTION, REGULATION, LICENSING AND ENFORCEMENT

**Course type:** TRAINING

**Date:** 20-24 November 2023

**Duration:** One week

**Location:** South Africa

**Working language  
of the course:** English

### **Objective and learning outcomes**

This course provides trainees with information and assists them in competence development related on the legal basis, regulatory policies, regulations and regulatory guides, with particular focus on the compound legal system of European Union Acquis, the role and scope of regulations, directives, recommendations and their implementation into the national regulatory structures.

### **Outline of course content**

- Introduction of the fundamentals of the radiation and the interaction between the radiation and the materials.
- Application of the principles of radiation protection in regulatory control (justification, optimisation, dose limitation) and application of the graded approach for the regulatory supervision of activities and facilities.
- Review of fundamental regulatory documents:
  - Euratom Treaty:
    - Nuclear safety,
    - Radiological and nuclear technology in health,
    - Radioactive waste and spent fuel,
    - Radiation protection,
    - Decommissioning of nuclear facilities,
    - Safeguards.
  - Basic Safety Standards Directive (2013/59/EURATOM).
- Interpretation of the European Union (EU) acquis in general and the EU and international (e.g. IAEA) regulation on radiation protection and nuclear safety of nuclear facilities and radioactive waste management facilities, with particular emphasis on the implementation of EU BSS into the national regulations.
- Introduction of radiation protection related international regulations for the different exposures controlled by the regulatory body (public, medical, occupational). Radiation protection related international regulations for safe transport of radioactive materials and radioactive waste management.
- Responsibilities of the regulatory body in planned exposure situations, existing exposure situations, and emergency exposure situations.
- Specific requirements for the education and training of personnel having responsibilities for safety, including information provided to personnel who may encounter radiation sources or may respond in an emergency.

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### **Technical schedule and delivery methods**

The course consists of one module taking a working week (i.e. 5 workdays).

- **Classroom lectures** take 4 days with 4 units per a day (tentatively morning sessions with 2 lectures of 90 minutes each, afternoon sessions with 2 lectures of 90 minutes each, with time allocated for discussions and appropriate breaks).
- **Tabletop exercise** will be included for which participants will form groups (4-5 persons each), and a 30-minute group discussion will be followed by a 45-minute exercise in two consecutive units.

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### **Target audience**

This course is intended to experts and professionals of Nuclear Regulatory Authorities (NRAs) and Technical Support Organizations (TSOs), preferably with responsibilities and experience related to nuclear safety and radiation protection.

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**Target number of participants:** 15 – 25

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### **Prerequisites and requirements for participants**

Participants should have an adequate level of knowledge in English (at least an 'Independent user' level defined by the CEFR). A university degree with nuclear specialization OR at least 2 years of professional experience in functions relevant to the content of the course is also a prerequisite.

Relevancy of the course topic in the work and institutionally justified interest in participating will be considered as well as the need and opportunity for filling competence gaps. Regional connections to the course location are prioritized and efforts are made to ensure gender equality, so these aspects may also be taken into account as selection criteria..

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### **Terms of participation**

The project is implemented under the European Union (EU) external assistance programme called the European Instrument for International Nuclear Safety Cooperation (INSC) and aims to support the National Nuclear Regulatory Authorities (NRAs) and their Technical Support Organisations (TSOs) in non-EU countries in strengthening their capabilities with regard to their regulatory tasks and responsibilities in the field of nuclear safety and radiation protection.

Employees of the NRAs or their TSOs in the Beneficiary Countries are eligible for financially supported participation in the T&T courses. Beneficiary Countries of the project are published on the website <https://training.ek-cer.hu/>.

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### **Costs**

Travel costs and subsistence allowances (including the international and national travel tickets, per diems, shuttle services, insurance and visa costs) for participants will be covered by the project.

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### **Application**

Application via the website <https://training.ek-cer.hu/>, according to the process and deadlines indicated there.

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### **Examination**

Technical and linguistic tests will be written as part of the application and selection process to assess the underlying knowledge and preparedness of applicants. Knowledge and development of selected participants will be assessed through technical tests throughout the course.

Participants attending the full course will be issued with attendance certificates. Successful participants will receive certificates confirming their knowledge achieved and skills acquired.

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