

Field: RADIATION PROTECTION AND WASTE MANAGEMENT

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

Course type: TRAINING

Date: 12-16 June 2023

Duration: One week

Location: Bratislava, Slovak Republic

**Working language
of the course:** English

Objective and learning outcomes

Participants will become familiar with the system of European Union Acquis, the compound legal system, the role and scope of regulations, directives, and recommendations and their implementation into the national regulatory structures, with emphasis put on radiation protection related to the areas of nuclear and radiological safety.

Outline of course content

- Introduction of the fundamentals of the radiation and the interaction between the radiation and the materials.
- Introduction to the Euratom Treaty:
 - Nuclear Safety,
 - Radiological and nuclear technology in health,
 - Radioactive waste and spent fuel,
 - Radiation Protection,
 - Decommissioning of nuclear facilities,
 - Safeguards.
- Review of the Basic Safety Standards Directive (2013/59/EURATOM)
- Application of the principles of radiation protection in regulatory control (justification, optimisation, dose limitation);
- Applying the graded approach for the regulatory supervision of activities and facilities.
- 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).
- Responsibilities of the regulatory body in planned exposure situations, existing exposure situations, 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.
- Radiation protection related international regulations for safe transport of radioactive materials and radioactive waste management.

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.

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 emergency preparedness.

Target number of participants: 15 – 25

Prerequisites and requirements for participants

Participants should have a university degree obtained in engineering or physics faculties with nuclear specialization, at least 1-2 years of related experience, and an adequate level of knowledge in English.

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/>.

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.

Application

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

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.
