

Regulatory Review and Assessment of the Safety Case for Disposal Facilities

8 years of collaboration between various European and other national TSOs and regulatory authorities in the EU SITEX projects resulted in the establishment of several tools for harmonisation of the regulatory review and assessment of a safety case for disposal of radioactive waste. The review methods developed in this context form the heart of this course, providing a unique and innovative training opportunity for persons involved or who will be involved in the licensing of radioactive waste disposal from both operator and regulatory/TSO organisations.

Modules: The course is made up of 3 modules that can be attended successively or independently.

Module 1: 9-13 March 2020

Module 2: S2 2020

Module 3: S1 2021

Registration deadline: 1 month prior to each module

Duration: 5 days for each module. Certificates of attendance will be issued to participants who attend each module.

Price: Contact us
 20% discount for registration to the 3 modules of the course

Code: CO1048

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Contact

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Online catalogue

www.enstti.eu/training-catalogue

Examination:

Knowledge testing (multiple choice exams) will be performed on each module of the course and successful candidates will be issued with a Knowledge Certificate.

Teaching methods:

Lectures, discussions and practical modules are included.

Working group exercises and technical visits are supervised by experienced TSO experts.

A USB stick containing the course material will be provided.



OBJECTIVES

To provide participants with an insight into regulatory review and assessment within radioactive waste disposal facilities licensing. It provides an understanding of the safety requirements for geological disposal, the regulatory process for licensing geological disposal facilities, regulatory expectations of the safety case and its systematic review and assessment by the regulatory authority. The course is presented in three modules of one week each.

Module 1 provides a general introduction to the course and deals with the safety case context, safety strategy, site characterisation and the facility description.

Module 2 deals with safety assessment, specifically; post closure radiological impact assessment, operational safety assessment, site and engineering assessment and management system assessment.

Module 3 deals with the topics of optimisation, uncertainty management, integration of safety arguments and regulatory review and assessment of safety.

TARGET AUDIENCE

The training course is addressed mainly to technical staff of regulatory authorities, technical support organisations and waste management organisations involved with geological disposal. The course will also be of interest to research organisation, consulting organisations and government and non-government organisations dealing with geological disposal of radioactive waste.

PROGRAM

Syllabus on Sitex_Network website:
www.sitex.network/activities/training

Module 1 provides a general introduction to the course and covers:

- the safety and regulatory requirements for the safety case
- the licensing process for geological disposal throughout the stages of site development
- waste and disposal facility information needed for safety demonstration and for supporting research programs and activities

Module 2 covers:

- safety assessment methodology
- radiological impacts
- engineering and management systems

Module 3 covers:

- approaches to optimization of operational and post-closure safety
- managing uncertainty in the safety assessment process
- integrating safety arguments into the safety case
- regulatory review and assessment

The overall course also provides an overview of European experience to date in the development and licensing of geological disposal facilities.

LEARNING OUTCOMES

Insights into and understanding of:

- Safety requirements and regulatory expectations of the safety case the licensing process for geological disposal throughout the stages of development.
- Site, waste and disposal facility information needs for safety demonstration and supporting research programmes and activities.
- Safety assessment methodology – covering radiological impact, engineering and management systems.
- Approaches to optimisation of operational and post closure safety.
- Management of uncertainty in the safety assessment process.
- Integration of safety arguments within the safety case.
- Regulatory review and assessment.
- European experience in the development and licensing of geological disposal facilities.

PREREQUISITES

Participants will require a basic knowledge in the area of radioactive waste management, in particular waste disposal; basic knowledge of disposal facilities licensing processes is welcome.