



Regulatory Review and Assessment of the Safety Case for Geological Disposal

Session: The course is made up of 3 sessions that can be attended successively or independently.
Consult online training schedule

Registration deadline: 3 months prior to course

Duration: 5 days
Certificate of attendance will be issued to participants who attend the full course.

Price: €2,500 per session

Code: CO1048

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Contact

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Online catalogue

www.enstti.eu/training-catalogue

Examination:

Knowledge testing (multiple choice exam) will be performed on the full course content and successful candidates will receive a Knowledge Certificate.

Teaching methods:

- Lectures, discussions and practical sessions 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

The course is given under the auspices of the SITEX Network. Its objective is to provide participants with a thorough understanding of the safety requirements for geological disposal; of the regulatory process for licensing geological disposal facilities; of the regulatory requirements concerning the safety case; and of how the regulatory authority systematically reviews and assesses the safety case.

TARGET AUDIENCE

The training course mainly addresses the technical staff of regulatory authorities, technical support organizations, and waste management organizations involved with geological disposal. The course will also be of interest to research organizations, consulting organizations, and both government and non-governmental organizations dealing with geological disposal of radioactive waste.

PREREQUISITES

Participants should ideally be engineers and scientists in the technical disciplines associated with radioactive waste disposal safety.

LEARNING OUTCOMES

After Session 1, participants will be able to explain the safety case context, with insight on safety strategy, site characterization and facility description.

After Session 2, participants will be able to describe the main elements of safety assessment, specifically: post-closure radiological impact assessment; operational safety assessment; site and engineering assessment; and management system assessment.

After Session 3, participants will be able to integrate the topics of optimization, uncertainty management, the use of safety arguments, and regulatory review into the assessment of geological disposal safety.

PROGRAM

Session 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

Session 2 covers:

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

Session 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.

