

Regulatory Control of Nuclear Sites: Surveillance of Environmental Radioactivity (Module 2)

Session: Once or twice a year

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 for participants

Code: CO1044

OBJECTIVES

To help participants understand the principles that guide environmental radioactivity monitoring and to provide the foundation needed to develop environmental surveillance programs.

TARGET AUDIENCE

- Professionals involved in nuclear safety and radiation protection activities.
- Professional employed by nuclear regulators or their technical safety organizations.

LEARNING OUTCOMES

Participants will acquire:

- Background information on environmental monitoring and the general principles guiding the development of monitoring programs.
- The ability to assess the adequacy of an environmental radioactivity monitoring network.

PREREQUISITES

Participants are expected to have basic knowledge in nuclear and radiation science and technologies and to have attended a course on radioprotection.

[REGISTER NOW](#)

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 be issued with 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.

PROGRAM

The 5-day training module will cover the following subjects:

- Environment radiological background and basis for surveillance of environmental radioactivity.
- International context, processes, and control of releases from facilities and activities that use ionizing radiation.
- Elements of physical dispersion and food-chain transfers.
- Metrology for environmental matrices.
- Environmental monitoring principles and practicalities with focus on 3H and 14C monitoring.
- Developing metrological facilities for radiological surveillance.
- NNR environmental laboratory visit, facts on natural background radiation in South Africa and establishing a background for a licensed nuclear site.
- Data treatment of monitoring results and dose assessment from routine releases and from emergency situations.

