enstti

Experts *for experts*

RADIATION PROTECTION I — Course in English

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

Session: 12-16 November 2018

Registration deadline: 12 September 2018

Duration: 5 days
Certificates will be issued to participants who attend the full course.

Location: Paris, France

Price: No fees for INSC participants
€2 500 for non-INSC participants

Code: 2018_11_CO1044

REGISTER NOW

Contact
Marie-Gabrielle Badinga
+33 (0)1 58 35 85 06
+33 (0)6 08 48 48 96
marie-gabrielle.badinga@enstti.eu

Online catalog
www.enstti.eu/training-catalog

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.

OBJECTIVES

To provide participants with a background to and an understanding of the principles guiding environmental monitoring of radioactivity. Also to provide participants with the foundation needed to develop environmental surveillance programs.

PUBLIC

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

LEARNING OUTCOMES

▪ A background on environmental monitoring and the general principles guiding the development of monitoring programs.
▪ An ability to evaluate the adequacy of a monitoring network for radioactivity in the environment.

PRE-REQUISISTE

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

PROGRAM

The module consists of 5 days of training, covering the following subjects:

▪ environment radiological background and basis for surveillance of environmental radioactivity,
▪ international context, processes and control of discharges from facilities and activities using ionizing radiations,
▪ 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.