



Implementing Nuclear Safeguards in practice

Session: Consult on-line 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: Contact us

Code: CO1053

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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 be issued with a Knowledge Certificate.

Teaching methods:

Lectures, discussions and practical sessions are included.
Working group exercises are supervised by experienced TSO experts.

A USB stick containing the course material will be provided.



OBJECTIVES

Increase the knowledge of the participants:

- On the importance of implementing fully safeguards obligations to facilitate the effective and efficient application of safeguards for the country;
- On the continued evolution of safeguards through modern technology and newly developed concepts.

TARGET AUDIENCE

Professionals involved in nuclear safeguards activities employed in National Regulatory Authorities (NRA) and Technical Support Organizations (TSO).

PREREQUISITES

Participants should have basic knowledge in the fields of nuclear energy and nuclear safeguards.

PROGRAM

The course focuses on implementing international safeguards in practice. The 5-day training module will cover the following subjects:

Application of safeguards

- Non-proliferation treaty and IAEA verification;
- IAEA safeguards agreements;
- Regional control;
- Small quantity protocol (SQP);
- Additional protocol and declaration.

Verification activities

- EURATOM inspections;
- Non Destructive Assay – gamma-ray spectrometry;
- Non Destructive Assay – neutron counting;
- Destructive assay – Containment and surveillance and monitoring;
- Hands-on demonstration of the relevant equipment.

Case study

- Measures taken by country's Nuclear Regulatory Authorities for establishing safeguards infrastructure and providing operational support for verification activities;
- Principles of nuclear material accountancy and control.

Safeguards & Security interface

- Information on the legal framework for nuclear security and on the categorization of nuclear material for nuclear security purposes;
- Principal differences and possible synergies between nuclear safeguards and nuclear security.

At the end of the module, a roundtable discussion session addresses issues identified by participants. It is followed by an evaluation during which participants give their impressions of the module, with a review of the degree to which the needs expressed on the first day of training were met.

LEARNING OUTCOMES

Participants will be able to:

- Understand the international and EURATOM safeguards agreements including the Additional Protocols and the Small Quantity Protocols;
- Contribute to the practical implementation of safeguards in their country in applying the principles of nuclear material accountancy and control;
- Understand differences and interfaces between nuclear safeguards and nuclear security;
- Describe safeguards techniques and to practically use some of them.