



## Nuclear Research Reactor Safety

**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:** CO1005

[REGISTER NOW](#)

### Contact

Frédérique Boulesteix  
+33 (0)1 58 35 93 51  
+33 (0)7 78 18 83 75  
[mailto : frederique.boulesteix@enstti.eu](mailto:frederique.boulesteix@enstti.eu)

### Online catalogue

[www.enstti.eu/training-catalogue](http://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.

### OBJECTIVES

To provide instruction on nuclear safety and regulatory control related to nuclear research reactors, covering safety requirements, safety analysis methodology, the defense-in-depth concept, and application of a graded approach, including hands-on training at a research reactor.

### TARGET AUDIENCE

This training is intended for:

- Engineers
- Researchers
- Other professionals from nuclear regulatory authorities and technical support organizations.

### PREREQUISITES

Participants are expected to have basic knowledge in the areas of nuclear and radiation science and technologies.

### LEARNING OUTCOMES

Participants will be able to:

- Understand the safety aspects of research reactor operation.
- Present relevant safety issues on topics like defense in depth, the nuclear licensing process, application of a graded approach, modifications, long-term operation, and stress tests.
- Present nuclear safety principles and standards, including safety requirements and an understanding of their application.

### PROGRAM

The training course covers the following topics:

- Basics of reactor physics and visits to research reactor with demonstration of neutron and gamma detection.
- Nuclear safety and implementation on research reactor safety systems and reactor safety during experiments.
- Operational safety of research reactor.
- Regulatory inspection.
- Safety of experiments.
- Periodic safety review (PSR).
- Safety assessment.

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.