

## Safety Aspects and Regulatory Requirements Related to Fusion Reactors in France

**Sessions:** Once or twice a year

**Registration deadlines:** 3 months prior to course

**Duration:** 2 days  
Certificate of attendance will be issued to participants who attend the full course.

**Price:** Specialized training course. Please contact us.

**Code:** CO1043

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### Contact

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### 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 participants with an overview of nuclear safety principles, regulatory requirements and the licensing process applied in France for nuclear facilities during the different phases of their life cycle, with a focus on the design and construction phases and associated quality requirements.

### TARGET AUDIENCE

This training is intended for project leaders and professionals involved in:

- ITER design and construction
- Quality assurance
- Structures procurement
- Systems and components (SSCs) related to safety
- The licensing process and regulatory issues

### PREREQUISITES

Participants should have a master degree in physical, chemical or natural sciences.

### LEARNING OUTCOMES

Participants will be able to:

- Describe the safety function in a fusion plant, discuss the potential risks in a Magnetic Fusion Plant, explain the confinement and safety barrier, and understand the waste-generation mechanism and mass produced.
- Understand the safety organization in France, the purpose and fundamental principles of nuclear safety and the concept of safety culture.
- Learn more about French safety and regulatory requirements and the associated binding and enforcement provisions.
- Take cognizance of the importance of the quality management system; of the need to apply the specified quality rules for each SSC in accordance with its safety classification; and of the equal need to apply the same specified quality provisions to SSC subcontractors and ensure their compliance during the design, fabrication/construction, testing and inspection processes.

### PROGRAM

The course focuses on the nuclear safety principles, regulatory requirements and licensing process applied in France for nuclear facilities during the different phases of their life cycle.

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

- Presentation of the training course and the expected results.
- The principles and objectives of nuclear reactor safety.
- French nuclear safety regulations.
- The organization of nuclear safety in France, with presentation of the main stakeholders (including emergency preparedness and response).
- The licensing process during the different phases of a nuclear facility's life cycle.
- ITER safety expertise: methods and results.
- Quality management system for facilities and operations, with practical examples on issues related to its implementation.
- The meaning of safety culture for operators and their subcontractors.