

# Medical care of irradiated / contaminated patients in the event of a nuclear and radiological emergency

**Code:** To be defined by ASNR

**Session:**  
On demand

**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!

**TO BE DESIGNED ACCORDING  
TO YOUR EXPECTATIONS**

## Prerequisites

Participants should have a basic knowledge of accidents in nuclear facilities and in the field of applied radiation technologies.

## 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 experts.

A USB stick containing the course material will be provided.

**ASNR Academy**  
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France

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## Objectives

To equip participants with a comprehensive understanding of radiation emergencies, including the principles of ionizing radiation, detection and protection methods, and the medical management of radiation exposure.

The program also aims to enhance practical skills through lab exercises and simulations, and to prepare participants for effective communication and response during radiation incidents.

## Target Audience

Emergency responders, medical professionals (doctors, nurses, and paramedics), radiation safety officers, nuclear industry workers, public health officials, and disaster management personnel.

It could also benefit researchers and students specializing in radiology, nuclear medicine, and emergency preparedness.

## Learning Outcomes

- **Understanding Radiation Emergencies:** Participants will be able to identify the scope, sources, and challenges of radiation emergencies.
- **Mastery of Radiation Concepts:** Gain a solid grasp of ionizing radiation principles, detection equipment, and radiation protection techniques.
- **Practical Application:** Demonstrate proficiency in using dosimetry and biodosimetry tools, and apply radiopathology knowledge in real-world scenarios.
- **Effective Response and Management:** Develop skills to manage radiation exposure cases on-site, in hospitals, and at pre-hospital levels, including communication with the public.
- **Preparedness and Decision-Making:** Enhance preparedness for radiation emergencies through understanding international frameworks, conducting risk assessments, and participating in case studies and tabletop exercises.

## Program

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

- Radiation emergencies, covering the scope of the problem, basic concepts of ionizing radiation, and the use of detection equipment.
- Hands-on exercises in physics dosimetry and biodosimetry labs, focusing on radiation protection, biological effects, and radiopathology.
- Management of acute radiation syndrome, external contamination, and cutaneous radiation injuries both on-site and in hospitals.
- Communication strategies, international emergency preparedness, and psychosocial aspects, reinforced through case studies like Fukushima and Goiania, as well as tabletop exercises.

**Contact :**  
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**Online catalogue**  
<https://academy.asnr.fr/en/>

