

Nuclear Safety with Respect to Radioactive Waste Management Facilities

NSRR



Italia

Aggiungi valore.
Ispira fiducia.

Description of the course

Learn about the basics of nuclear safety: the basic safety approach, the safety functions and the underlying defense-in-depth principle. It will be discussed how a nuclear safety culture can be integrated and strengthened in the existing company culture. Safety requirements, design basics and best practice solutions of radioactive waste management facilities will be introduced. Furthermore, technologies for handling and conditioning will be explained. The second day of the course deals with the topics deterministic and probabilistic analysis. The participants will apply and compare the methodologies in practical application. Additionally, the risk assessment methodology Failure Mode and Effect Analysis (FMEA) will be introduced and exemplarily conducted based on a radioactive waste management facility case study. Learn in this course how to comply with mandatory safety requirements and profit from best practice examples and the technical experience of our trainers. The training will be in English.

Duration

2 days / 16 hrs.

Objective of the course

- Understand the basic principles of nuclear safety.
- Learn about safety requirements, design basics and best practice solutions of radioactive waste management facilities.
- Get to know the differences and complementarities of deterministic and probabilistic safety analysis.

Course Programme

Agenda Day 1

- Welcome & Introduction
- Evolution of Nuclear Power and Safety Conception
- Basic Safety Approach, Safety Functions and Defense in Depth Principle
- Safety Culture

- Lunch Break -

- EU Requirements and Best Practice on Radioactive Waste Management (RWM)
- RWM Facilities and Safety Requirements for Sorting, Treatment and Conditioning
- Safety Design Basics for RWM Facilities
- Technologies for Handling and Conditioning of Radioactive Waste and Safety Requirements

Agenda Day 2

- Deterministic Safety Analysis
- Probabilistic Safety Analysis
- Failure Mode and Effect Analysis (FMEA)

- Lunch Break -

- **Practical Application:** Comparison of Deterministic and Probabilistic Safety Analysis
- **Practical Application:** Conduction of FMEA Based on a Simplified Case Study of a RWM Facility

- Certificate Awarding Ceremony -

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Typical participants

- Employees of operators, authorities and manufacturer involved in radioactive waste management (engineers, technical experts)

Pre-requirements (if any)

- none

Handouts and training material

- Handout (pdf-format)
- Photo documentation of flipchart and pin board results

Trainer

As global 3rd party organisation, and over 50 years of experience in the nuclear field, TÜV SÜD helps to ensure that all safety requirements with respect to radioactive waste management facilities are fulfilled. From our daily business we know how to conduct deterministic and probabilistic safety analysis to identify weaknesses and strengths in the design of nuclear facilities. Profit from the experience of our experts, which step into the trainer role for the course and will share their lessons learned.

Participation certificate*

- Participation certificate

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In caso di necessità o supporto, contattaci all'indirizzo supporto.formazione@tuv.it oppure chiamaci al 051 2987 429/420