



Decommissioning of nuclear installations

SCK•CEN (Mol, Belgium)

Objective

As the final step of the nuclear facility life, decommissioning differs quite significantly from the operational period of life. Changing environment, development of new tools, "one shot" operations, production of huge amounts of waste, discrepancies between original design and the final layout of the facility, need for a global risk management with evolving radiation protection programme are some characteristics operators, health physicists, technicians are faced with when processing with dismantling operations. Moreover, regulatory requirements, choice for a dismantling strategy, safety and waste management, assessment and follow-up of doses, financial provisions and human resources management give still rise to many questions when a decommissioning project has to be set up. The main objective of the training course is to provide the participants with the basic requirements regarding the management of a decommissioning project and to share experience from ongoing decommissioning projects.

Target audience

All stakeholders such as regulators, plant managers and operators, health physicists, technical service organisations (already involved by decommissioning operations or planning such operations in the coming months of years) should take benefit from this event whose main aim is to be as close as possible to the practices by sharing experience from ongoing decommissioning projects.

Topics

This training course can contain the following modules:

- Legal and regulatory framework
- Strategies of decommissioning
- Project management of decommissioning
- Dismantling operations
- Safety aspects and management of decommissioning
- Optimisation and dismantling operations
- Dose monitoring: Individual and workplace monitoring
- Inventory, facility and site characterisation
- Management and characterisation of material
- Optimisation tools
- Decontamination techniques
- Case studies (BR3, BN, Thetis)

A technical visit to the [BR3 reactor facility](#) (currently in the process of decommissioning) can be included in the training course.

Language

This course is organised in English.



Duration

This 5-day training course is provided from 09h00 to 17h00, including two coffee breaks and lunch.

Registration

Registration is only available online on <http://academy.sckcen.be/en/Upcoming-events>.

Contact and venue

The course is held at the [Lakehouse](#) of the Belgian Nuclear Research Centre, Boeretang 201, BE-2400 Mol, Belgium.

Rooms can be booked at the [Lakehouse hotel](#) or at the the [Alauda Hotel](#) in Dessel.

Further information is available via academy@sckcen.be or + 32 14 33 21 57.

<http://academy.sckcen.be>



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SCK•CEN Lakehouse, Mol

Programme

Day 1

09:00 – 09:45 h	Welcome, presentation of the SCK•CEN Academy activities and introduction by the participants
09:45 – 11:00 h	Decommissioning general context
11:00 – 11:30 h	Break
11:30 – 12:45 h	Decommissioning legal and regulatory aspects
12:45 – 13:30 h	Lunch
13:30 – 14:45 h	Safety aspects management
14:45 – 15:15 h	Break
15:15 – 16:30 h	Safety aspects management



Day 2 |

08:30 – 10:00 h	Decommissioning project management	
10:00 – 10:30 h	Break	
10:30 – 12:00 h	Dismantling operation	
12:00 – 13:00 h	Lunch	
13:00 – 14:30 h	Dismantling operation	
14:30 – 15:00 h	Break	
15:00 – 16:30 h	Material management inventory	

Day 3 |

08:30 – 10:00 h	Material management characterization	
10:00 – 10:30 h	Break	
10:30 – 12:00 h	Material management tool for accountability	
12:00 – 13:30 h	Lunch	
13:30 – 16:30 h	Visit to BR3 and presentation hot cell M2	



Day 4 |

08:30 – 10:00 h	Safety aspects optimisation and dismantling operations	
10:00 – 10:30 h	Break	
10:30 – 12:00 h	Safety aspects VISIPLAN tool	
12:00 – 13:00 h	Lunch	
13:00 – 14:30 h	Doses follow-up individual and workplace monitoring	
14:30 – 15:00 h	Break	
15:00 – 16:30 h	Dismantling decontamination	

Day 5 |

08:30 – 10:30 h	Case studies BR3, Thetis and BN	
10:30 – 11:00 h	Break	
11:00 – 12:00 h	Nuclear decommissioning in an European Perspective	
12:00 – 12:30 h	General Q&A, feedback & discussion	
12:30 – 13:30 h	Farewell lunch	
13:30 – 15:00 h	Multiple choice test (optional)	
15:00 h	Closure	

