

## Registration

The course is limited to 30 participants!  
Course fee: € 1400 incl. VAT

Early registration, before August 31:  
€ 1250, incl. VAT

The course fee includes:

- Comprehensive take-home lecture notes in printed and electronic format
- Welcome reception at the Club-House
- Lunches and refreshment breaks on each day of the course
- Certificate of attendance
- Course dinner



## Venue

Belgian Nuclear Research Centre, SCK•CEN  
Club-House, Boeretang 201, 2400 Mol, Belgium.

## Language

The course will be held in English.

## Lecturers

Experts with international recognition in the domain, from SCK•CEN and other organisations with leading roles in nuclear and radiological emergency management at European level.

## Be prepared and respond effectively!

The course offers a comprehensive overview of nuclear and radiological emergency management in Europe.

Special sessions will be dedicated to communication and the accident at Fukushima.

*Past events showed that communication is still one of the major challenges in emergency management. At international and national levels, communication is currently upgraded based on lessons learned from past events with radiological consequences.*

*The accident at Fukushima will be addressed throughout the entire course, and a summary of the radiological consequences and the emergency management aspects will be discussed in a dedicated session.*

## More information on

[www.sckcen.be/en/Events/TCMOL2011](http://www.sckcen.be/en/Events/TCMOL2011)

## Contact

### Technical programme

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### Registration

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Training course on

## Preparedness and response for nuclear or radiological emergencies

17-21 October 2011, Mol, Belgium



**What is the state-of-the-art in nuclear and radiological emergency management?**

**What are the challenges we face?**

Be prepared for nuclear and radiological emergencies by attending this comprehensive training course and broaden your social network in the domain of radiological and nuclear emergency management.

A combination of theory, practice, tools and experience will help you and your organisation to:

- Be prepared for an emergency.
- Mitigate the crisis.
- Improve the overall response to nuclear or radiological emergencies.

## Programme

### Objectives

Making informed and effective decisions in nuclear or radiological emergencies requires understanding of the theoretical background of radiological evaluations; the principles of intervention; planning and organisation in off-site emergency response; the multiple factors influencing decisions, such as economic, social and psychological impacts; knowledge and practice with decision support tools; European and international agreements and legislation.

This course addresses nuclear and radiological emergency management through the entire cycle of preparedness, response and recovery and pays special attention to practical exercises. Particular emphasis is laid on the exchange of experiences from recent incidents and accidents.

The course features radiological and nuclear case studies, the latest scientific findings in the field, European legislation, international recommendations and practice.

### Target audience

- Technical and radiological advisors
- Staff responsible for the overall emergency organisation and policy
- Civil protection officers
- Environmental protection officers
- Members of CBRN units

A basic knowledge of radiation protection is recommended.



### Monday, 17 October, 2011

- 08:00** Refresher course: Basic concepts in radiation protection  
*J. Camps, SCK•CEN, Belgium*
- 08:40** **Registration**
- 09:00** Welcome, introduction, programme overview  
*C. Turcanu, SCK•CEN*
- 09:30** Radiological emergencies - *C. Rojas Palma, SCK•CEN*
- 10:25** Main transfer processes to environment - atmospheric dispersion and deposition - *T. Mikkelsen, Risø National Laboratories Technical University of Denmark*
- 11:15** **Break**
- 11:30** Main transfer processes to environment - transfer to foodchain and man - *F. Gering, Bundesamt für Strahlenschutz (BfS), Germany*
- 12:15** **Lunch**
- 13:30** Main contribution and exposure pathways to man  
*W. Raskob, Forschungszentrum Karlsruhe, Germany*
- 14:15** Application of international recommendations for the protection of people in emergency exposure situations  
*W. Weiss, Bundesamt für Strahlenschutz (BfS), Germany*
- 15:00** **Break**
- 15:20** Monitoring and data management  
*J. Camps, SCK•CEN, Belgium*
- 16:20** Discussion
- 16:45** Visit intervention vehicle SCK•CEN
- 17:15** End of course day & Reception

### Tuesday, 18 October, 2011

- 08:30** Countermeasures during the early phase  
*H. Miska, European Commission (Former Scientific Officer)*
- 09:15** Practical aspects of intervention during the early phase  
*H. Miska, European Commission (Former Scientific Officer)*
- 10:00** **Break**
- 10:20** Management options for food production systems  
*A. Nisbet, Health Protection Agency - Radiation Protection, United Kingdom*
- 11:20** Management options for inhabited areas  
*A. Nisbet, Health Protection Agency - Radiation Protection, United Kingdom*
- 12:20** **Lunch**
- 13:20** Advanced Decision Support Systems  
*W. Raskob, Forschungszentrum Karlsruhe, Germany*
- 14:20** **Break**
- 14:35** Workshop: Radiological evaluations - interaction with RODOS and/or RODOS demo
- 17:00** End of course day

### Wednesday, 19 October, 2011

#### Special session on Communication in nuclear and radiological emergencies

- 08:30** The emergency plan: organisation and requirements  
*P. Smit, Nationale Alarmzentrale (NAZ), Switzerland*
- 09:30** The Belgian emergency plan - experience with exercises  
*B. Carlé, SCK•CEN, Belgium*
- 10:30** **Break**
- 10:50** International data and information exchange  
*M. De Cort, European Commission DG Joint Research Centre, Ispra, Italy*
- 11:35** Community legislation  
*V. Tanner, European Commission DG TREN, Luxembourg*
- 12:20** **Lunch**
- 13:20** Communication in nuclear and radiological emergencies  
*T. Perko, SCK•CEN and University of Antwerp, Belgium*
- 14:05** Lessons learned from communication during a radiological incident  
*K. De Beule, FANC, Belgium*
- 14:45** **Break**
- 15:00** Specific issues of communication: a journalist's experience from Japan
- 15:30** Discussion
- 16:00** Technical Visit SCK•CEN

### Thursday, 20 October, 2011

- 08:45** Economic, psychological, social and ethical impact of intervention in emergency and post-emergency conditions  
*F. Hardeman, SCK•CEN, Belgium*
- 09:45** Stakeholder involvement in decision processes  
*C. Turcanu, SCK•CEN, Belgium*
- 10:30** **Break**
- 10:50** Preparedness for the late phase & territory projects  
*P. Croûail, Centre d'étude sur l'Evaluation de la Protection dans le domaine Nucléaire (CEPN), France*
- 12:00** **Lunch**
- 13:30** Table-top exercise
- 17:00** Debriefing
- 17:15** End of course day
- 19:00** **Course dinner**

### Friday, 21 October, 2011

#### Special session on the Fukushima accident: consequences at local and international level

- 08:30** The Fukushima accident: radiological consequences
- 09:15** The impact of the Fukushima accident at international level  
*SCK•CEN, Belgium*
- 10:00** **Break**
- 10:20** Other emergencies: specific issues  
*K. van der Meer, SCK•CEN, Belgium*
- 11:20** Triage, monitoring and treatment of people exposed to the malevolent use of ionising radiation  
*C. Rojas Palma, SCK•CEN, Belgium*
- 12:00** Closing session and final discussion
- 12:20** **Lunch**