



Basic Training Courses for Key Players in Emergency Management:

A Review of the Early and Late Phase Training Courses

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- Two complementary basic courses addressing the training needs of key emergency management stakeholders at the different stages of nuclear/radiological emergency and recovery management
 - Early to intermediate phases after a nuclear/radiological accident (Mol, BE)
 - 17-21 March, 2014 (31 participants) and 16-20 March 2015 (27 participants)
 - Long term management of contaminated territories (Gomel, Belarus)
 - 15-19 Sept., 2014 (31 participants) and 21-25 Sept., 2015 (32 participants)
- The courses were organised **in collaboration** with main European emergency management actors, the European platform NERIS and the Research Institute of Radiology in Belarus





- Several organisations participated by providing trainers

Mol

- SCK•CEN (Belgium)
- KIT (Germany)
- BfS (Germany)
- PHE (U.K.)
- NAZ (Switzerland)
- IAEA
- JRC Ispra
- EC

Gomel

- CEPN (France)
- EPA (Ireland)
- IRSN (France)
- NRPA (Norway)
- RIR (Belarus)
- CRMHE (Belarus)
- TOKYO Healthcare University (Japan)
- ICRP



- Theoretical background and practical knowledge required to make informed and effective decisions in nuclear and radiological emergencies:
 - Radiological evaluations
 - Principles of intervention
 - Planning and organisation of off-site emergency response
 - Factors influencing decisions
 - On-the-field immersion (e.g. in an affected territory)
 - Face-to-face testimonies from people experiencing the management of accidental or post-accidental exposure situations





- Previous to the FP7 PREPARE project, the courses have been organised in various countries, in the framework of other European projects
 - More than 500 specialists, mainly from European countries, attended these courses
- The audience extended within PREPARE
 - Nuclear safety authorities
 - Research institutes
 - Emergency response organisations
 - First responders
 - CBRN officers
 - Students (University of Hiroshima – PHOENIX Programme)



- The content of the two complementary courses was harmonised
- New findings from PREPARE and feedback from Fukushima accident management and recovery were included
- Increasing attention is required for:
 - Basic notions of radiation protection
 - Radiological incidents and accidents, e.g. transport accidents or events related to the malevolent use of ionising radiation
 - Practical aspects of intervention, e.g. protection of intervention personnel, zoning of affected areas, time-dependent effectiveness of protective actions.
 - Non-technical aspects of emergency management, e.g. communication, social and psychological impact, health surveillance, engagement of affected citizens in the recovery efforts
 - Lessons learned from past nuclear or radiological accidents



Practical aspects

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- There is a need to address in a balanced way the theoretical and practical aspects of emergency management through:
 - Table-top exercises
 - Presentation or demonstrations of measurement equipment and laboratories, decontaminated facilities, etc.
 - Site visits
 - Discussions and debates with people involved in emergency preparedness or 'on the spot' post-accident rehabilitation strategies





- Very good evaluation of the courses
- Continuous need for training in emergency preparedness and response and recovery
- Future training programmes should cover more extensively radiological events
- Flexible course formats?
 - E.g. for specific target audiences, depending on background knowledge and emergency management or recovery tasks
- New courses
 - New edition of emergency preparedness and response coming up on
25-29 April 2016
 - http://academy.sckcen.be/en/Customised_trainings/Calendar/
 - New course on late phase... if supported by new partners (and CONCERT)
 - Opportunity to introduce courses within the ETI programme of the CONCERT project