



REsilience Support for Critical Infrastructures through Standardised Training on CBRN

WP3 – Deliverable 3.2 Validation Workshop

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Final Version

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1. TRAINING PROGRAMME

Based on the results obtained in the “Training Need Assessment” (activity 2.2), in the “Equipment’s Needs Assessment” (activity 2.3) and during the “Validation Workshop” (activity 2.4), diverse training modules were designed to meet end-users’ requirements and fit with the operational context, and emergency plans of each CI; horizontal training needs common to all CI sectors were accompanied, where relevant, by more tailored training programmes according to the specific sector. The training sessions were developed on two levels, depending on the target audience they spoke to: Joint Operator “Awareness” (L1) and Joint CBRN Team Leader (L2).

Below are some aspects considered during the sessions:

- The duration of each of the training sessions will be of 5 working days (divided into 36 didactic periods, or 36 didactic hours) and target the identified operators from each sector (Health, Energy, Nuclear, Rail and Air Transport), who will be granted access to 5 tailor-made training sessions not to be carried out at once.
- The language of the courses will be English.
- The classic teaching approach will be used for theory classes, whereas practical activities will be thought accordingly.
- Some of the training modules will be shared amongst CI sectors (Horizontal), while others will be sector specific (Specific).

A preliminary, not binding Timeline Model of a Training Session, containing the list of validated Training Modules, is shown below:

	Day 1	Day 2	Day 3	Day 4	Day 5
AM	Module 1 <i>“Introduction to CBRN risks and general aspects related to the protection and resilience of CIs”</i>	Module 3 <i>“Chemical Hazards and CIs”</i>	Module 5 <i>“Radiological and Nuclear Hazards and CIs”</i>	Module 7 <i>“Communication and Psychology”</i>	Module 9 <i>“Table Top and Field Exercises”</i>
PM	Module 2 <i>“Warning and Reporting”</i>	Module 4 <i>“Chemical Hazards and CIs”</i>	Module 6 <i>“Protection from CBRN agents: collective and personal protective procedures and equipment”</i>	Module 8 <i>“Intervention Model and Operational Guidelines”</i>	/

2. OPERATIONAL GUIDELINES

The objectives of the Operational Guidelines are the following:

- Identification of the underlying structure characterising the appropriate CBRN Intervention Model for CI.
- Understanding how to integrate the chosen intervention model with the protocols and procedures already in place at the CI.
- Definition of an operational package containing the procedures to be adopted by operators of a generic CI in response to a CBRN event (which may also be part of the tactical-operational activities).

To achieve the aforementioned goals, the document describes the potential structure of the Intervention Model - which takes in account the internal safety procedures of the critical infrastructure (as stated in the (OSP), Operator Safety Plan) - to be employed in the event a CBRN risk/hazard occurs at a CI.

After examining and discussing the content of the OSP relevant to the definition of the operational guidelines (IEP, Internal Emergency Plan and Graded Application Measures), a potential Intervention Model (ICS, Incident Command System) was discussed focusing on the operational-tactical level ("crater" area).

Finally, the Operational Guidelines were identified and summarised below:

- OP1 Recognition and Collection of Information: operators have to recognize the type of CBRN event/threat by using specific indicators and questions to collect information.
- OP2 Internal and External Plans Activation: control room operators must alert the external bodies/authorities while activating the internal emergency response plan of the CI.
- OP3 Equipment Preparation: internal operators must prepare themselves (wear PPE and other appropriate tools).
- OP4 Support to First Responders: operators have to support CBRN first responders in several activities: securing the area, the personnel, the structure, and the critical activities of the CI; giving information regarding available water resources and safe zones for the victims.
- OP5 Logistic Support: the role and detailed actions operators have to take it varies from CI to CI and their OSPs. Generally, however, the he/she will need to fully support the incident commander (i.e at logistical/tactical level as in the case of providing planimetries).
- OP6 Decontamination Support: operators can also assist first responders during decontamination procedures.
- OP7 to OPn: customized per specific operational need and CI context.