



Amman, February, 2020

Roadmap

Moving Jordan as a regional hub for chemical safety and security

Development of the Joint CBRN Training Facility in Amman as a regional centre for chemical safety and security

Jordan, being under continued chemical threat, has developed relevant experience in mitigating CW and Chemical, Biological, Radiological and Nuclear (CBRN) threats and has introduced effective international cooperation in these regards. The objective of the Jordan Chemical Security Project (Jordan Project) was to further build on and develop these capabilities and expertise in chemical domain to be used in the regional and international dimensions. It proposed concrete measures to enhance chemical security in Jordan and the region.

The proposed Roadmap develops further the outcomes and deliverables of the successful implementation of a unique project to enhance chemical security in Jordan and the region and promote the development of Chemical Safety and Security Confidence Building Measures for the Middle East.

The Jordan Project financed from the grant of the 2018 US Defense Threat Reduction Agency (DTRA), has been conducted as a public-private initiative, with the Jordan Armed Forces (JAF), as leading partner in Jordan, and the International Centre for Chemical Safety and Security (ICCSS) in Warsaw, Poland, as the international coordinator of the project.

The core principle of the project development and implementation was to concentrate on the national and regional prevention and preparedness against chemical threats. The leading approach was to implement the whole-society approach which enable to engage all the relevant Jordan stakeholders in the process of enhancing chemical security in Jordan, with an active participation and support of the international partners. The project implementation enhanced the capacity of Jordan stakeholders on matters of chemical safety and security, in prevention and preparedness against chemical threats. Proposals on furthering national legislation and administrative regulations were considered. The mechanisms and offers for cooperation were agreed with the partners from the region during Amman International Seminar in April 2019.

The proposed Roadmap provides a process of national and international activities conducted in 2020-2022, accompanied with a series of implementation projects financed by international donors, to enable to develop Jordan as the regional hub and the Joint CBRN Training Facility in Amman as a regional centre for chemical safety and security (ChemReg Center), starting from 2020.

The process is composed of COMPLETED ACTIVITIES by April 2019, and 9 **Activities** within the PREPARATORY PHASE From end 2020 till end 2021 and IMPLEMENTATION PHASE from December 2021.

The basic principle of the proposed strategy is that financing chemical safety and security is not a cost but an investment in national and regional security, economic development and international cooperation.

STRATEGY

The core understanding and achievement of the JAF/ICCSSL cooperation and the project implementation was the readiness of the Jordan and international partners to promote Jordan as a regional hub for chemical safety and security and the development of the Joint CBRN Training Facility in Amman as a regional centre for chemical safety and security. The vision is to combine a major Jordan potential gathered in CBRN areas and develop new capabilities to be offered for the different regional and international stakeholders to enhance their safety and security in the whole chain of activities in chemicals and energy carriers.

The Road Map includes the following stages:

I. COMPLETED ACTIVITIES by April 2019 – basis for the road map development

Achieved Milestones

1. A network of participants and supporters from Jordan and international partners was established to develop chemical security in Jordan, to promote Jordan as a regional hub for chemical safety and security and to develop the Joint CBRN Training Facility in Amman as a regional centre for chemical safety and security.
 - a. Jordan Armed Forces (JAF) position secured as a leader and coordinator of the process;
 - b. functioning of National of the Focal Point and the establishment of the National Chemical Security Expert Team;
 - c. International experience and capacity building included into the process of chemical security in Jordan and the region – beginning of building an international network to assist Jordan in chemical security;
 - d. The ICCSSL has been confirmed as an international partner to develop and implement the Road Map and the accompanying national and international activities
2. A national gap analysis with inventory of issues/questions was made to ensure a practical and result oriented approach in introducing chemical security in Jordan and promote in the region;
3. Concept of training and background courses established:
 - a. Table Top Exercise (TTX) conducted on preventing and preparing for misuse of toxic chemicals and chemical terrorism, and
 - b. concept developed of Full Scale Exercise (FsX): Middle East Chemical Prevention and Response – ME-CHEM-REACT on preventing and preparing for misuse of toxic chemicals and chemical terrorism, to demonstrate the preparedness of Jordan stakeholders against chemical threats and develop the mode of cooperation for the region;
 - c. The syllabi of the background training course, including theory and practice, tutorial materials and recommended training equipment, developed, as means to develop and sustain staff for chemical security in Jordan and the region;
4. Working Document on chemical security confidence building measures in the Middle East developed.
5. A draft Working document on regional road map for chemical safety and security initiated.

II. JORDAN ROAD MAP - PREPARATORY PHASE From December 2020 till December 2021

INTERNAL ACTIVITIES

Activity 1 Support the Chemical Security National-level Regulatory Framework Development and share best practices and capacity building measures in chemical safety and security, including protection of chemical critical infrastructure:

Activity 2 Establish beneficial working relationships between the Joint CBRN Training Facility in Amman and the ICCSS with the appropriate national and international stakeholders, including United Nations, NATO, EU, OPCW, INTERPOL, WCO, international chemical associations:

- a) to cooperate on the development of the background training courses, including theory and practice, tutorial materials and recommended training equipment, to enable international organizations to establish their training capacities at Joint CBRN Training Facility.

Activity 3 Upgrading the Joint CBRN Training Facility in Amman to a regional centre for chemical safety and security and reference centre for identification of hazardous chemical substances.

Joint CBRN Training Facility in Amman (Training Facility) is an embodiment of the JAF's commitment to WMD disarmament and non-proliferation. It is core place to provide effectiveness of the JAF training preparedness and response to CBRN threats. The Centre also contributes to the development and maintenance of CBRN capabilities in the region. In order to strengthen the Training Facility capabilities to fully address the real threats of chemical weapons, as well as to support national and regional capacity building in the areas to enhance chemical security and reduce chemical threats, the Training Facility should be expanded and bolstered with additional capabilities in chemical prevention, preparedness and response, and benefiting from recent advances in science and technology.

The main goal for this project is to provide a detailed concept to upgrade of Joint CBRN Training Facility in Amman (Training Facility) to a Regional Centre for Chemical Safety and Security ("the ChemReg Centre") and to enhance its capability to conduct whole range of activities and lead the network of national and international partner in chemical prevention, preparedness and response, to assist in chemical weapons investigation, and to assist countries and industries in capacity-building and protection activities.

The Centre would also enhance Jordan and JAF ability to detect and identify and respond to chemical incidents by development of the concept of OPCW accredited laboratory, preparation and conduct of Chemical Weapons Convention Chemical Analysis Competency Test (CFACT) to prepare for OPCW proficiency tests and receiving certification on the establishment of a quality system in accordance with the standards (ISO/IEC 17025:2005 or equivalent) for the analysis of chemical-warfare agents.

INTERNATIONAL ACTIVITIES

The international activities shall, based on the Jordan project implementation, assist countries in the region in raising awareness of chemical safety and security and introducing national systems in chemical safety and security, and providing assistance in the implementation of international efforts to counter CW proliferation and terrorism and/or misuse of toxic chemicals, using the Jordan experience.

The international activities shall promote Jordan as an international hub for cooperation in chemical safety and security training, best practices exchanges and national and regional capacity building in whole chain of chemical activities and prevention against chemical threats.

Activity 4 Conclude agreements on establishing long-term beneficial working relationships and conduct of joint training, provision/exchange of equipment between the Joint CBRN Amman Centre

and d appropriate national and international stakeholders, including United Nations, NATO, EU, OPCW, INTERPOL, WCO, international chemical associations.

- a) Development of a draft model cooperation agreement
- b) Conduct of joint bilateral and multilateral seminars/workshops.
- c) Providing training to Jordan and regional border and customs authorities.

Activity 5 Development a Road Map for regional chemical safety and security including:

- a) Support the Chemical Security National-level Regulatory Framework Development and share best practices and capacity building measures in chemical safety and security
- b) Promote national Gap Analysis and Risk Assessments in chemical activities
- c) Develop national cadre of experts and personnel (trainers) to respond to chemical-related incidents at national and international levels, through the participation in the certified training courses at the Joint CBRN Amman Centre.

Activity 6 Develop the detailed concept/Working Paper on chemical safety and security confidence building measures for the Middle East.

The Roadmap and Working Paper on chemical safety and security confidence building measures for the Middle East aim at bringing sustainability and continuity of chemical security efforts to the national and international stakeholders in the Middle East.

IMPLEMENTATION PHASE **from December 2021**

Achieved Milestones

1. Existence of an international network to assist Jordan to enhance chemical security and promote it throughout the region
2. A series of specialized trainings and courses on chemical safety and security and civil protection conducted, in cooperation with ICCSS, to materialize the role of Jordan as a regional hub for chemical safety and security.
3. Tools, including, background training courses, gap analysis, an inventory of issues and questions to be addressed to ensure a practical and result oriented approach towards enhancing chemical safety and security in the region, to sustain the process of enhancing chemical security in Jordan and spreading within the Middle East and North Africa.

The Jordan experience and lessons learned on chemical security will be moved towards the regional dimension and offered to all the relevant stakeholders from governments, international organizations, industries, academia;

Activity 7 The Chemical Security National-level Regulatory Framework operational in Jordan:

- a. Legal and administrative provisions enable state controls of chemicals in Jordan;
- b. Functioning legal and training system, open for neighbours, for cross-boundary movement of toxic chemicals;

c. Readiness to share best practices and capacity building measures in chemical safety and security for countries of the regions;

Activity 8 Joint CBRN Training Facility in Amman (ChemReg Centre) functions as regional centre for chemical safety and security:

- a. Long-term beneficial working relationships established with United Nations, NATO, EU, OPCW, INTERPOL, WCO, international chemical associations.
- b. Modern training field for chemical safety and security functions to enhance participating agencies' ability to deter, detect, identify, investigate and respond to CW-related incidents.
- c. Formal participation of Jordan in OPCW Proficiency testing, to apply for status of OPCW designated laboratory.

Activity 9 Road Map for regional chemical safety and security, including Working Paper on chemical safety and security confidence building measures for the Middle East, presented and promoted via 2021 United Nations Resolution.

Introducing integrated and comprehensive chemical safety and security regulatory and operational system in Jordan and chemical safety and security capacity building in the Middle East

The successful implementation of the Roadmap will require the provision of international funding to develop and implement the following projects:

- A. Development (2020) of a project on Improvement of Jordan National Regulatory System on Chemical Safety and Security; Implementation: 2021 (JAF/ICCSS)**
- B. Development (2010) of a project Improving Jordan capacity to protect chemical and energy carrier critical infrastructure against terrorism and hybrid threats; Implementation: 2021 (JAF/ICCSS)**
- C. Development (2020) Aqaba Special Economic Zone Authority Goes Chemical Safety and Security to enhance security throughout the chemical lifecycle; Improve Chemical Security and Enhance Companies Cooperation in the Prevention of and Preparedness against man-made and natural chemical disasters and to Promote a Chemical Safety and Security Culture; (Implementation 2020-2021);**
- D. Development (2019) Upgrading the Joint CBRN Training Facility in Amman to a regional centre for chemical safety and security (Implementation 2020-2021);**
- E. Development (2020) Development of national and regional training framework for cross-boundary movement of toxic chemicals; (Implementation 2020-2021).**