



INTERNATIONAL CENTRE FOR CHEMICAL SAFETY AND SECURITY

BASIC COURSE ON CHEM-BIO and ENVIRONMENTAL SAFETY AND SECURITY

(4 days of intensive best practices exchanges, discussions, table-top exercises and lectures)

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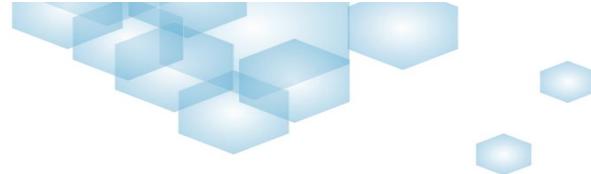
CONTACT INFORMATION

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WHY ICCSS?

The development, organization and conduct of the training courses in the area of chemical and environmental safety and security are the key activities of ICCSS. This includes development of curriculums, professional development of personnel and formulation of training programs and training methodologies based on national and international standards.

We are enhancing chemical and environmental safety and security on local, national and international levels.

The proposed basic training course is being developed within the framework of the programme: “**Local Awareness and Responsibility in Chemical Safety and Security**”, overall goal of which is to promote and enhance CSS on a local level. As a non-profit international entity we also help implementing regulations and best practices in many countries, inter alia, China, Kenya, Ukraine and Yemen.

We address our trainings to industry, academia, international institutions and local administration that wish to implement good standards and best practices in ensuring chemical safety and security, with small and medium enterprises being our priority

ICCSS ASSETS

Tailored trainings:

We approach each partner individually. Although we do have a detailed catalogue of courses, we prefer to interview the interested parties or our trainees first. This allows us to better identify their needs and requirements and in turn offer them training which is a perfect match.

Convergence to International Conventions:

ICCSS has expertise in the international frameworks including the Chemical Weapons Convention, Basel, Rotterdam and Stockholm Conventions and others, which encompass the use of chemicals on different levels and in different areas. We offer assistance in improving the current legal framework to meet international standards.

Software based solutions for management of chemicals:

A unique system collects digital versions of all data and documentation related to the safety of the plant and make it available to eligible and responsible persons in the plant as well as from the external authorities / organizations if needed and allowed, e.g. Fire Brigade, Office of Technical Inspection, Inspectorate for Environmental Protection. In addition to data collection, the system can be also used for monitoring and supervising tasks that are related to Accident Prevention Program and Safety Management System, e.g. maintenance activities, monitoring and diagnostic procedures, training of employees. The software is in line with the Seveso III Directive of the EU.

Access to international partners and their capacities:

Since its foundation in 2012, ICCSS has been active in promoting global initiatives in the area of chemical safety and security through organization of conferences. This allowed us to develop an extensive network of partners that share the common vision of the safer environment.

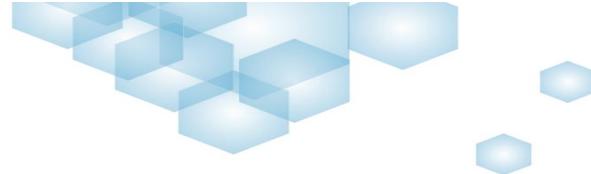
Management system solutions:

Apart from the chemical-related issues, we show a strong focus on effective management system. We offer help in implementing ISO 27001:2005 standard, which puts information security under strict management order. Moreover, together with AGH University of Technology, we are developing a unique OKIT methodology - a structured method for the development of security management system for an effective protection of information assets in industry and systems that are used to store, process and transmit sensitive information.

RELEVANCE OF THE OFFER TO INTERNATIONAL TRAININGS:

The modules which would be of direct interest based on your email are **bolded below**. Please be aware that various aspects of security are directly related to appropriate safety standards, therefore we have also listed courses from Chemical Safety and Environmental Protection.

In terms of chemical security, as you can see below all topics may be relevant, depending on your preferences. Please also have in mind the software and management system solutions mentioned above, which directly impact the chemical security culture



INTRODUCTION

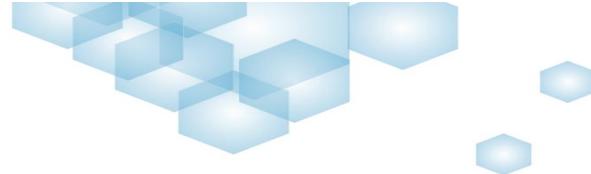
1. An effective chem-bio safety and security culture and environmental safety and security can result in a significant increase in the effectiveness of the safety and security of chemical material and associated facilities, storage, transport and use of toxic chemicals.
2. The basic course on chem-bio and environmental safety and security will focus on promoting capacity-building for safe and secure use of chemistry in research, development, storage, production, use and transportation of toxic chemicals and bio-materials.
3. The course will provide a basic awareness and understanding of chem-bio safety and security culture and environmental safety and security culture and practices. The course will give insight into the relevant international and national instruments that impact the chem-bio safety and security culture.
4. The course is intended to promote the goals of the Chemical Weapons Convention (CWC), Biological and Toxins Weapons Convention (BTWC), WHO International Health Regulations (IHR), Chemical Conventions, and will focus on promoting national capacity-building for research, development, storage, production, and safe use of chemicals and bio-materials for purposes not prohibited.
5. The course is intended for Participants who are, or who will be, associated with the implementation or training in their home countries in the broad areas of chemical safety and security, including the implementation of the relevant international obligations.

GENERAL OBJECTIVES

6. The course will train the trainers.
7. The course will provide the participants with necessary know-how on procedures and practices in chemical safety and security.
8. Training on the proper techniques and practices in the areas of chemical safety and security will be offered followed by discussions.
9. The course will improve Participant's knowledge and experience in the prevention of, preparedness for and response to a misuse of toxic chemicals.

THE EXPECTED RESULTS OF THE COURSE

10. The course will bring more national institutions, organizations and stakeholders to participate in development of chemical safety and security issues. The course will assist to improve national capabilities in the prevention of, preparedness for and response to a misuse of toxic chemicals and provision of guidance and assistance to help establish chemical security culture.
11. The course will assist to build collaborative frameworks to address both national priorities in chemical safety and security as well as the implementation of CWC and UNSCR 1540 (2004).
12. The course will further develop concepts of the training and education scheme for rising awareness, teaching principles, required training skills and know-how and best practices transfer in areas of chemical safety and security, and will trigger training curricula preparation for specialized courses.
13. The course will increase awareness of Participants of requirements and best practices in chemical safety and security;
14. There will be a broad dissemination of best practices in chemical safety and security among Participants and their industries and other stakeholders; and



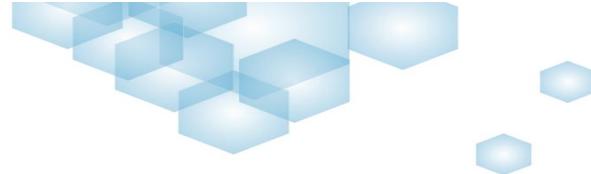
15. There will be a broad dissemination of training materials for National Authorities, scientists, laboratory managers, and chemical industry on best practices in chemical security and chemical safety.

COURSE ORGANISATION AND PARTICIPATION

16. The course is organised by the International Centre for Chemical Safety and Security in Warsaw, Poland, with the support of the National Authority, the international partners, and Dow Chemical Company.
17. The course will involve lectures, presentations and practical training from different national and international agencies engaged in developing and implementing measures to strengthen safety and security at chemical facilities, as well as representatives from chemical industry and from international organisations capable of providing advice in the areas of facility and transportation security.
18. The course is open to the national authorities and government officials from other relevant ministries and agencies, representatives of the chemical industry and scientific communities, international organisations, agencies and relevant NGOs engaged in developing and implementing measures to strengthen safety and security at chemical facilities and transportation security.
19. The course will proposed to be conducted in English. Participants are therefore expected to have a good written and oral command of English. In case the course is proposed to be conducted in national language, all the relevant documents and supporting materials should be translated in advice and professional interpreters should be provided for the course.

RELEVANCE OF THE COURSE TO DEVELOPING COUNTRIES and/or COUNTRIES WITH ECONOMIES IN TRANSITION

20. The safe management of chemicals and CBRN security are primary concern for the emerging economies. Addressing such issues during the course will help to promote and implement proper provisions and practical solution in chemical management and security, which if remain unsolved may seriously hamper sustainable economic growth.
21. The course is directly devoted to assist national efforts in building capacities against CBRN proliferation and misuse of toxic chemicals.
22. National representatives will have a direct access to relevant experience and practical knowledge on chemical security standards and practices.
23. The course is directly devoted to assist developing countries/countries with economies in transition in building capacities for the safe and secure activities with the toxic chemicals.
24. The course will create an opportunity to present the Participants from the developing countries/countries with economies in transition with the experiences of the developed countries and international organisations to promote chemical safety and security culture.
25. Representatives of developing countries/countries with economies in transition will have a direct access to relevant experience and practical knowledge on safety and security standards and practices.



RELEVANCE OF THE COURSE TO THE ACTIVITIES OF INTERNATIONAL ORGANISATIONS

26. The course responds to activities by international organisations which provide assistance for countries in need for expertise and material and financial support to sound management of CBRN agents;
27. The course will also will create an opportunity for national entities to join a network of international cooperation in the safe and secure handling of CBRN agents, including toxic chemicals which engages all the stakeholders, including governments, international organisations, research centres and companies.
28. The course will assist the efforts of the international organisations to promote higher national and industry standards and practices for the safe and secure handling of CBRN agents, including those on preventing their unauthorised access and misuse.

RELATION OF THE COURSE TO OBJECTIVES OF THE INTERNATIONAL OBLIGATIONS, including WHO IHR, Chemical Weapons Convention (CWC), Chemical Conventions and UN Security Council Resolution 1540 (2004)

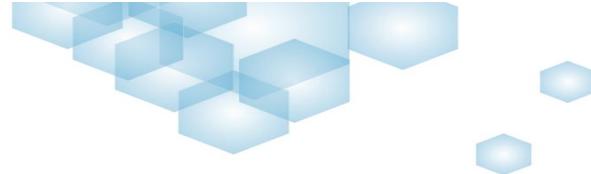
The course will assist the development of the concept how to efficiently assist to accomplish the international goals and provisions, including WHO IHR, OPCW, Chemical Conventions and UN Security Council Resolution 1540 (2004)

29. The expected results of the course are an increased awareness of participants of the requirements and best practices in CWC implementation, chemical non-proliferation and chemical security, dissemination of training materials for National Authorities, scientists, laboratory managers, and relevant industries on best practices in chemical non-proliferation and chemical security.
30. OPCW leads and animates activities in assistance for peaceful uses of chemicals. It cannot however act alone due to limited resources and mandate. The course will stress necessity to working the tasks together in multi-stakeholder partnership and under OPCW policy umbrella.
31. The course will assist to develop guidance how the requirements for chemical safety and security should be incorporated into future national legal and administrative regulations and operational provisions, as well as under international technical assistance programmes, including those by the OPCW under Article VII (Support for National Implementation) and Article X (Assistance and Protection) of the Convention.
32. The results of the course should be promoted internationally, with an emphasis on the OPCW as a platform for cooperation in chemical safety and security between all the relevant stakeholders.
33. The course will enable to tackle chemical security issues by assisting the OPCW to serve as a platform in raising capacity building and best practices exchanges and promote solutions which are continued, sustainable, affordable and accountable, with emphasis on the low income countries.

SUSTAINABILITY

34. The sustainability of the results of the course will require that its outcomes will eventually be incorporated into the permanent background course on chemical safety and security developed for the relevant stakeholders.
35. Sustainability will also be enhanced by continuing contacts with the participants and relevant national agencies to ensure sustainability of training.

36. The course will continue to strengthen national networks of chemical safety and security officers.
37. The course will support the OPCW to implement the activities as part of Article XI of the Chemical Weapons Convention.
38. It will be ensured that materials and other resources will be available to the relevant authorities and officers who continue to provide trainings at their institutions.



PROGRAM
OF BASIC COURSE ON CHEM-BIO and ENVIRONMENTAL
SAFETY AND SECURITY

I. General module (1st day) - international experiences in enhancing CBRN safety and security

1. Experience by the international organisations in the development and promotion of safety and security standards in the areas of chemical, biological and nuclear agents;
2. International responses to chemical security threats and incidents;
3. Responsible Care – Initiative of the Global Chemical Industry;
4. The roles of chemical associations in promoting chemical safety and security.

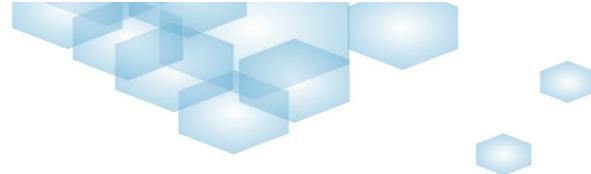
II. Dedicated module (2nd day) on Process Safety

1. Fundamentals of chemical safety; Safety-Management Issues Related to Chemical Processes;
2. Process and Chemical Hazards Analysis;
3. Safety Management System for humans and environment protection;
4. Regulations concerning major hazard accidents in EU and USA;
5. Emergency planning for chemical incidents;
6. Implementation and execution of safety management system in chemical and process industry;
7. Integral process and occupational risk assessment for small and medium size chemical industries.

III. Dedicated module on Chem-Bio Security (3rd Day)

1. Evaluation and performance indicators of chemical security culture;
2. Best practices for improving chemical security culture;
3. The role of chemical security in international global security engagement efforts;
4. OPCW as a platform for cooperation in the area chemical security;
5. WHO and IHR as basis for reporting on chem-bio accidents
6. European Responsible Care Security Code;
7. National measures against misuse of toxic chemicals, including declarations and trade controls;
8. National responses to chemical security threats and incidents.

IV. Management of Safety and Security at chemical plant – a practical case study (4th Day) of Dow Chemicals



1. Safety and security measures at Dow Chemicals; procedures and operation; response to chemical security threats and incidents;
2. Relationship between security and safety culture;
3. Identifying best practices and approaches to promoting safety and security consciousness in small and medium-sized chemical companies;
4. Chemical security culture: roles and responsibilities at chemical plant.

**INTERNATIONAL CENTRE FOR
CHEMICAL SAFETY AND SECURITY**



ICCSS

Working together to enhance chemical safety and security

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