



INTERNATIONAL CENTRE FOR CHEMICAL SAFETY AND SECURITY

TRAINING CATALOGUE ON LOCAL AWARENESS IN CHEMICAL AND ENVIRONMENTAL SAFETY AND SECURITY

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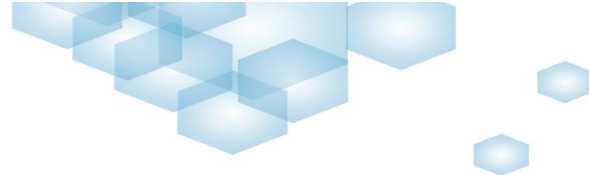
TRAINING CATALOGUE

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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.

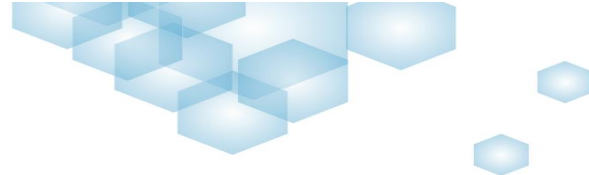
Software based solutions for management of chemicals:

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.

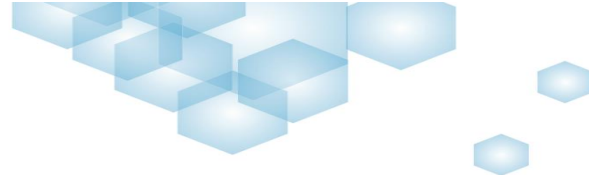
In terms of chemical security, as you can see below all topics may be relevant, depending on your preferences. Please also have in mind the software and management system solutions mentioned above, which directly impact the chemical security culture

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 ICCSS training catalogue on chem-bio and environmental safety and security focuses 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, **at local level**.
3. The proposed training modules 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 ICCSS training catalogue promotes 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 ICCSS training catalogue 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 ICCSS training catalogue offers train the trainers approach.
7. The modules 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 completion of a given module improves Participant's knowledge and experience in the prevention of, preparedness for and response to a misuse of toxic chemicals, in related areas.



TRAINING MODULES ORGANISATION AND PARTICIPATION

10. The modules have been developed and implemented by the International Centre for Chemical Safety and Security in Warsaw, Poland, with the support of the international partners.
11. The modules will include 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.
12. The modules will be conducted in English. Participants are therefore expected to have a good written and oral command of English.
13. In case the module is proposed to be conducted in national language, all the relevant documents and supporting materials should be translated in advance and professional interpreters should be provided for the course.

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

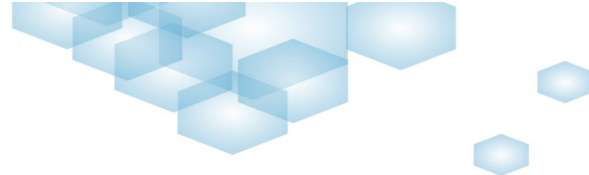
14. The safe management of chemicals and CBRN security are primary concern for the emerging economies. Addressing such issues during the course will help to promote and implement proper provisions and practical solution in chemical management and security, which if remain unsolved may seriously hamper sustainable economic growth.
15. National representatives will have a direct access to relevant experience and practical knowledge on chemical security standards and practices.
16. The training modules are directly devoted to assist developing countries/countries with economies in transition in building capacities for the safe and secure activities with the toxic chemicals.
17. The completion of training modules 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.
18. 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 TRAINING MODULES TO THE ACTIVITIES OF INTERNATIONAL ORGANISATIONS

19. The modules were developed in cooperation with relevant international organisations which provide assistance for countries in need for expertise and material and financial support to sound management of CBRN agents;
20. The modules assist in 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.

SUSTAINABILITY

21. Sustainability will also be enhanced by continuing contacts with the participants and relevant national agencies to ensure sustainability of training.
22. The completion of training modules will continue to strengthen national networks of chemical safety and security officers.



TRAINING MODULES CATALOGUE

CHEMICAL SAFETY CATALOGUE:

COURSE (1): Essentials: the basics of chemical safety and security

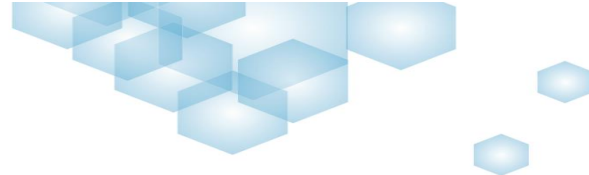
- 1.1. Chemical hazard, chemical hazard description. Hazard classes and categories, GHS and CLP
- 1.2. Process safety fundamentals
- 1.3. Chemical hazard information – resources and data
- 1.4. Acceptable risk and how to achieve it
- 1.5. Regulating chemical safety
- 1.6. Self-regulations, Responsible Care®
- 1.7. Product stewardship as an element of CSR
- 1.8. Emergency preparedness
- 1.9. Emergency response
- 1.10. Equipment for risk management.
- 1.11. Chemical inventory and accounts management**
- 1.12. International framework for chemical safety**

COURSE (2): Implementation of the practical elements of chemical safety and security management in an organization

- 2.1. Law of chemical safety. Practical Focus on International Conventions
- 2.2. Chemical safety - general issues
- 2.3. Chemical Process
- 2.4. Chemicals in an enterprise. Supply chain**
- 2.5. Classification and labelling**
- 2.6. Packaging
- 2.7. Transport of hazardous substances, ADR, RID**
- 2.8. Chemical Wastes
- 2.9. Chemicals around us

SPECIALIST COURSE (3): Participation of local authorities and Fire Service in crisis management

- 3.1. Type of chemical hazards and threats
- 3.2. Legal basis for responding to chemical incidents
- 3.3. The National Fire and Civil Protection System - example of Poland
- 3.4. The participation of local units in responding and mediating the consequences of chemical accidents
- 3.5. The participation of local units in response to accidents in upper tier plants
- 3.6. Land planning as a measure of risk reducing
- 3.7. The National Warning and Reporting System



CHEMICAL SECURITY CATALOGUE:

- 1.1. Introduction to chemical security, beyond safety worst case scenario
- 1.2. Building a security culture inside an organization
- 1.3. Threat characteristics attack, sabotage, theft for further diversion
- 1.4. Characteristics of perpetrators
- 1.5. Threat level assessment
- 1.6. Vulnerability assessment of protection systems;
- 1.7. IT & cyber security for chemical plants.
- 1.8. Chemical security at public events
- 1.9. Chemical forensics and attributions;
- 1.10. Physical protection system
- 1.11. International regulations for chemical security treaties
- 1.12. Dual use chemicals
- 1.13. Physical protection systems
- 1.14. Improvised Chemical Devices
- 1.15. Current problems / case studies of plants
- 1.16. Physical protection systems and solutions – basic examples of Dow Chemicals
- 1.17. Crime scene investigation
- 1.18. International framework for chemical security
 - Chemical Weapons Convention
 - Australia Group
 - Wassenaar Arrangement

INTERNATIONAL CENTRE FOR CHEMICAL SAFETY AND SECURITY



Working together to enhance chemical safety and security

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