



Offer for general training course and professional development
by the International Centre for Chemical Safety and Security (ICCSS)

1. International Centre for Chemical Safety and Security (ICCSS) in Warsaw (www.iccss.eu) is an international leader in developing and implementing global policies in chemical and environmental safety and security in critical areas of economic activities, including chemical industry, energy sector and environmental sector. The ICCSS mission is to promote peaceful uses of chemistry and support of the development of national and international networks of chemical safety and security officers from national agencies, international organizations, industries, and civil society. ICCSS runs several major national and international programs in the areas of chemical and ecological safety and security, which cover chemical industry, energy sector and environment.
2. ICCSS support efforts for the development and acquisition of talented staff for global chemical, petrochemical and energy industries, which are undergoing deep changes and transformation. ICCSS assists in the preparation of talented staff to be able to adapt to changing environment and introduce innovative and environmentally and economically sound, especially in the developing countries.
3. ICCSS developed and promoted an international network of academic education and professional trainings in chemical and ecological safety and security for chemical industry, energy and environment sectors - CHEMSS EDU R&D Network. They offered education and training aimed at increasing competences of students and trainees in the management in the areas of chemical and petrochemical industry safety and security including environmental protection and cyber security.
4. The proposed General training on safety and security of chemicals is a background course which will offer the trainees a modern training on the most recent challenges in process safety, sustainable chemistry and environmental protection, conducted by the recognized international experts from the developed world and the international organizations.

COSTS OF PARTICIPATION

The costs in the participation in the course are 5000 EURO per participant. This includes the costs of meals and incidentals, local transportation, training materials and secretariat services /Internet, reproduction of materials and printing/.

The costs of travel, hotel accommodation, medical insurances and costs of obtaining visas have to be covered by the participants or sponsoring organisations.

The International Centre on Chemical Safety and Security and cooperating partners/organisations will cover the costs of preparing the course materials, provide for free conference rooms and offices, and offer practical training.

General training course on safety and security of chemicals

(5 days)

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Introduction

1. Chemicals are present in the everyday's life having impact on individuals and communities, both as the means of production, useful components of everyday life but also abandoned objects, or tools of crime against health and public order.
2. Human and his environment has thus to be protected against emission of chemicals or products of their reaction. Emission may accompany chemical process in regular operations and during accidents, handling, regular use a result of misuse and in global processes. Regardless of emission's origin, its limiting is a core of chemical safety.
3. The proposed course offers a holistic approach where ultimate safety is a result of safe process, use and secure keeping and trade of chemicals.
4. Our program includes thus elements of teaching process safety, safe use, hazard communication and substance security
5. The course introduces an integrated approach based on recommendations of OECD and UN agencies. In practical aspects our programme is however based on European approach.
6. Our trainings also employs resolutions from Chemical Conventions and Aarhus convention.
7. This training programme is tailored for entrepreneurs, industry managers and logistic managers. The training is dedicated to all who develop, produce, process, use chemicals and dispose them in their activities.
8. This training contains knowledge and skills associated with most important subsets of safety and environmental protection at industry sites. The particular skills such as performing process hazard analysis, creating documentation for internal emergency planning, creating safety data sheets, classifying mixtures, assessing vulnerability or preparing chemical safety reports are subjects of separate trainings.
9. Creating and promoting safety and security culture are inherent part of this training.

Goals

1. Promote approach of "safety as unity"
2. Provide general training in major subsets of chemical safety and security;
3. Create a framework training programme
4. Build chemical safety and security culture

Objectives

1. To present legislation regulating the following domains of safety

- a. Hazard identification
- b. Risk management
- c. Hazard communication
- d. Accident prevention
- e. Chemical security
- f. Chemicals as hazardous goods in transport
- g. Management of emissions
- h. Management of hazardous waste
2. To present obligations levied by the legislation
3. To present skills required in every company manufacturing, processing, handling or using chemicals
4. To present safety and security culture as a fundament of company safety and security

Expected results

After completion of the course:

1. Trainee gains comprehensive understanding of chemical safety as it is required by law
2. Trainee is able to organize and plan management of safety activities at a company level
3. Trainee is able to work with external partners towards safety and security in transport;
4. Trainee will be able to organise building of chemical safety and security culture.

FRAMEWORK TRAINING PROGRAMME

No.	Title	Hours			Remarks
		l	ex.	w.	
Title I					
Hazard identification and communication					
1	Chemical hazards description	1	0	0	
2	Regulations on hazardous chemicals	1	0		
3	Information requirements	0	2		
4	Data bases on hazardous properties	1		1	
5	Principles of classification	1	2	2	
6	Safety data sheets	1	2	2	
		5	6	5	
Title II					
Accident prevention					
7	Rules, laws and regulations pertaining to accidents prevention	2			
8	Components of accident prevention policy	2	2		
9	Process hazard analysis	2	4	2	
10	Safe distances	1	1		
11	Information sharing	1		1	
		8	7	3	

Title III					
Chemical security					
12	Concept of dual use and security hazards	1			
13	Chemical security regulations	1			
14	Non-listed chemicals	1			
15	Chemical security vulnerability	2	2	1	
16	Chemical security culture	1			
		6	2	1	
Title IV					
Transport of dangerous goods					
17	Model UN regulations	2			
18	Security of dangerous goods in transport	1		2	
19	Hazard communication in transport	1		2	
20	Packaging of dangerous goods	1			
		5		4	
Title V					
Hazardous wastes management					
20	Hazardous wastes regulations	2			
21	Hazardous wastes storage	2			
22	Hazardous wastes transportation	2			
23	Hazardous wastes under REACH	1		1	
24	Land cleanup	2			
		9		1	
Title VI					
Hazardous emissions					
25	Regulations on hazardous emissions	2			
26	Integrated permit	2	2	2	
27	Best available techniques	1	2		
28	Public participation	1		1	
		6	4	3	
	Total hours:	39	19	17	76

Contact:

Mr. Adam Paturej; ICCSS Business Director; a.paturej@iccss.eu