



CBRNE Training Catalogue

Strengthening the Southern, Central, and Eastern European (CEE) Region's Capacity to Prevent, Prepare for, and Respond to Chemical, Biological, Radiological, Nuclear, and Explosives (CBRNE) Threats



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1. Scientific Modules

Scientific Modules focus on advancing technical and scientific expertise in CBRNE-related research and innovation. They deepen participants' knowledge by providing strong theoretical foundations, state-of-the-art technologies, and analytical and investigative capacities.

1.1. Introduction to ATEX Directives

Providing Organisation: EX-ON Engineering Llc. | Hungary | <https://www.ex-on.hu/>

Module Type	Scientific (diversifying and deepening the scientific and CBRNE related professional knowledge of the participants)
CBRNE Domain(s)	Explosives, Multi-hazard / Cross-cutting
Duration	12 hours
Delivery Method	Hybrid
Training Frequency	On-demand
Target Participants	Bachelor's Students, Master's Students, Postgraduate/PhD Candidates, Recent graduates, Industry Professionals, First Responders
Study Level Required	None
Language of Instruction	English
Language Proficiency	B1
Max Participants/Session	16
Location / Venue	Budapest
Application Process	SPARKUP application process
Certification Offered	No
Assessment Methods	Continuous assessment (e.g., participation, assignments)
Passing Criteria	Knowledge Test: 50%

Course Overview

The training emphasizes the role of ATEX in ensuring safe operations, protecting lives, and maintaining continuity in hazardous or sensitive infrastructures. Case studies and real-world scenarios will be used to demonstrate how ATEX requirements apply in emergency response, research activities, and industrial safety management. By the end of the training, participants will be able to identify ATEX zones, understand categories of equipment, recognize compliance requirements, and apply risk assessment principles relevant to their work or studies. The course also fosters cross-disciplinary dialogue between practitioners and researchers, ensuring that safety knowledge is not only theoretical but also directly applicable in real-world settings where explosive atmospheres may pose a threat.

Specific Learning Objectives

Understand the foundations of the ATEX framework, including the scope and key requirements of Directive 2014/34/EU (equipment) and Directive 1999/92/EC (workplace). Gain an overview of hazardous zones and equipment categories, recognizing their

importance in explosion risk management. Develop awareness of how ATEX principles are applied in practice, with examples from first response, research, and industrial safety contexts.

Key Competencies Developed

Foundational knowledge of the ATEX framework, its directives, and relevance to explosion safety. Awareness of hazardous zones and equipment categories, and their role in risk prevention. Ability to connect theory to practice, understanding how ATEX principles support safe research, industrial operations, and first response. Improved safety culture and communication, fostering cross-disciplinary dialogue between responders, researchers, and students.

Industry & Market Relevance

The ATEX framework is essential across industries where explosive atmospheres may occur, including energy, oil and gas, chemicals, pharmaceuticals, food, and waste management. It ensures compliance with EU law, safeguards workers, and protects critical infrastructures. For first responders, it supports safer emergency operations; for researchers and students, it provides insight into regulatory and innovation drivers. As safety compliance and risk management gain importance in global markets, basic ATEX knowledge strengthens professional competence, enhances employability, and contributes to resilient, safe industrial and research environments.

Practical Training Elements

Lecturer Presentations – Structured sessions introducing the ATEX directives, workplace requirements, and equipment categories, supported by visual materials. Case Studies – Real-world examples demonstrating ATEX applications in industry, research, and emergency response. Interactive Q&A – Guided discussions where participants clarify concepts, share perspectives, and connect ATEX principles to their own professional or academic contexts.

Trainers & Mentors

Mr. Attila Zsarnovszki - Managing Director, Electrical Engineer Ms. Edit Molnár - technical expert, lead auditor Mr. Márk Koburger - ATEX Expert

Course Materials Provided

Handbook

Expected Career Impact

Participation in the ATEX Framework Introduction Training enhances regulatory awareness and safety literacy—skills increasingly valued across research, industry, and emergency response sectors. The course introduces participants to EU compliance frameworks, strengthening employability in technical and safety-related fields. It also helps researchers and first responders better understand explosion risks and regulatory requirements in critical environments. By combining academic knowledge with practical application, the training supports career development, cross-sector mobility, and readiness for roles in safety management, CBRNE research, and industrial operations.

Regional Collaboration

Yes.

1.2. Explosion Protection: Past, Present and Future Directions

Providing Organisation: EX-ON Engineering Llc. | Hungary | <https://www.ex-on.hu/>

Module Type	Scientific (diversifying and deepening the scientific and CBRNE related professional knowledge of the participants)
CBRNE Domain(s)	Explosives
Duration	6 hours
Delivery Method	Hybrid
Training Frequency	On-demand
Target Participants	Bachelor's Students, Master's Students, Postgraduate/PhD Candidates, Recent graduates, Industry Professionals, First Responders
Study Level Required	None
Language of Instruction	English
Language Proficiency	B1
Max Participants/Session	24
Location / Venue	Budapest
Application Process	SPARKUP application process
Certification Offered	No
Assessment Methods	Continuous assessment (e.g., participation, assignments)
Passing Criteria	Knowledge Test: 50%

Course Overview

This training explores the evolution, practical challenges, and future directions of explosion protection. First, it reviews the historical development of explosion safety, showing how past incidents and regulations shaped today's standards. Second, it examines the application of safety requirements in explosive industrial technologies, highlighting lessons from case studies where non-compliance often stemmed from human and organizational factors rather than technology. Finally, the course looks to the future, focusing on stricter control points, reliable inspections, stronger safety awareness, and moving beyond minimum compliance. Participants gain valuable insight into how explosion protection continues to develop in an ever-changing industrial landscape.

Specific Learning Objectives

Understand the historical development of explosion protection, including key milestones and lessons learned from past industrial incidents. Gain awareness of current safety requirements for explosive industrial technologies and the factors influencing compliance and non-compliance. Recognize the role of human and organizational factors in ensuring or undermining explosion safety. Develop insight into future directions of explosion protection, including control measures, inspections, and fostering a proactive safety culture.

Key Competencies Developed

Safety awareness Policy and regulatory understanding Risk assessment literacy Analytical thinking Organizational and human factor awareness Future-oriented safety mindset

Industry & Market Relevance

Explosion protection knowledge is increasingly vital across industries such as energy, chemicals, pharmaceuticals, and manufacturing. This course aligns with job market needs by enhancing regulatory awareness, safety culture, and risk management competencies, supporting employability and compliance in sectors where explosion hazards and evolving safety requirements are critical.

Practical Training Elements

Lecturer presentations – structured knowledge transfer on explosion protection. Real industrial case studies – lessons from practice and regulatory challenges. Interactive Q&A sessions – dialogue, clarification, and shared perspectives.

Trainers & Mentors

Mr. Attila Zsarnovszki - Managing Director, Electrical Engineer Ms. Edit Molnár - technical expert, lead auditor Mr. Márk Koburger - ATEX Expert

Course Materials Provided

Handbook

Expected Career Impact

This training supports career development in fields where explosion safety and regulatory compliance are critical. Participants gain awareness and transferable skills that strengthen their employability in industrial safety management, process engineering, risk assessment, and compliance auditing. For researchers and students, it provides valuable insight into the regulatory environment shaping innovation, supporting pathways in academia, R&D, and technology transfer. For first responders and safety officers, it enhances contextual understanding of explosion hazards, contributing to safer interventions and leadership in emergency management. Overall, the course broadens professional competence and prepares participants for cross-sector roles in CBRNE and industrial domains.

Regional Collaboration

Open to regional collaboration with partner organisations.

1.3. Legislation for Chemicals Placed on the Market

Providing Organisation: United Nations Institute for Training and Research (UNITAR) | International Organization with HQ in Switzerland (33 Training Centers around the world) | <https://unitar.org/>

Module Type	Scientific (diversifying and deepening the scientific and CBRNE related professional knowledge of the participants)
CBRNE Domain(s)	Chemical
Duration	1 Day
Delivery Method	Online
Training Frequency	One-time
Target Participants	Industry Professionals
Study Level Required	Industry Experience
Language of Instruction	English
Language Proficiency	B1
Location / Venue	Online
Course Fee	Free
Application Process	Online registration
Certification Offered	Yes
Assessment Methods	Continuous assessment (e.g., participation, assignments)

Course Overview

This course is based on the Swedish Chemical Agency's - KemI - publication on "Legislation for chemicals placed on the market", one of a series of documents developed to complement the UNEP Guidance on the Development of Legal and Institutional Infrastructures and Measures for Recovering Costs of National Administration (LIRA Guidance) by giving more detailed guidance in different areas. This aim of this course is to provide guidance to participants in their efforts to set up efficient legal frameworks to support the sound management of chemicals. It focuses on legislation for preventive chemicals control and is directed towards the placing of chemicals on the market, with the inclusion of examples of possible legal texts.

Specific Learning Objectives

After taking the course, participants will be able to: Describe the basis for chemicals legislation focusing on placing chemicals on the market Explain the possible design and content of the legislation Explain the difference between primary and secondary legislation Compare and explain the consequences of different ways to divide responsibilities between the public and private sectors Describe how international agreements can support the introduction of provisions and contribute to national legislation"

Key Competencies Developed

Crisis management, Policy awareness

Industry & Market Relevance

As national governments, industry regulators and international trade bodies increasingly require robust legal frameworks to govern chemicals entering the market, this course

meets a clear and timely demand. The training targets the need for professionals who understand how to craft, interpret and apply legislation that governs chemicals placed on the market — a critical competency in regulatory, compliance, trade-policy and environmental health sectors. With global supply-chains and regulatory harmonisation on the rise, having expertise in legislative design for chemicals is a direct fit with emerging job-market needs.

Practical Training Elements

The course, about 45 minutes to complete, is self-paced and adapted to the schedule of full-time working professionals. Participants are provided with the opportunity to learn through various experiences: absorb (read); interact (activity); and reflect (relate to one's own reality). This includes videos, interactive lessons, reading materials and quizzes. Despite being self-standing, the 4 modules of the course must be completed in order. Each module concludes with a quiz which will assess the knowledge learners will acquire. If learners pass the quiz with a 100% mark, a certificate of completion will be issued to them. Participants will be requested to provide feedback on the course by filling in a feedback form after completing all the modules, accessible anytime.

Expected Career Impact

This course is targeted at national chemicals officials but is intended to be of interest to a broad range of sectors and stakeholders involved in chemicals management at the national level (e.g. agriculture, environment, health, labour, trade and industry, transport). It may be of particular relevance to national officials in a position to mandate development of legislation and officials with the task of drafting national legislation.

Regional Collaboration

Yes, already in cooperation with KEMI

1.4. Decision Support Systems (DSS) in Case of CBRNE Events

Providing Organisation: University of Rome Tor Vergata | Italy | <https://www.cbrngate.com>

Module Type	Scientific (diversifying and deepening the scientific and CBRNE related professional knowledge of the participants)
CBRNE Domain(s)	Chemical, Biological, Radiological, Nuclear, Explosives
Duration	5 days
Delivery Method	In-Person
Training Frequency	Annually
Target Participants	Bachelor's Students, Master's Students, Postgraduate/PhD Candidates, Recent graduates, Industry Professionals, First Responders
Study Level Required	Bachelor's Degree
Prerequisites	Bachelor's degree
Language of Instruction	English
Language Proficiency	B2
Max Participants/Session	10
Location / Venue	University of Rome Tor Vergata / training facilities in Lazio region
Course Fee	TBD
Application Process	Online form.
Certification Offered	Yes
Certification Details	Certificate of attendance by the University of Rome Tor Vergata.
Assessment Methods	Continuous assessment (e.g., participation, assignments)
Passing Criteria	18/30

Course Overview

Decision Support Systems (DSS) are essential tools for both first responders and decision makers. First responders play a critical role in reporting information that serves as input data for DSS, enabling decision makers to effectively manage CBRNe scenarios. In Module 8, attendees will become familiar with various software tools for predicting CBRNe hazards, modeling CBRN agent dispersion, and managing disasters. They will explore the limitations and advantages of these tools and gain hands-on experience with selected systems to understand their operational principles.

Specific Learning Objectives

By the end of the module, students will be able to use free-license tools for numerical prediction of CBRNe events.

Key Competencies Developed

- Generality on CBRN Prediction - Meteorology - Dispersion models - What is a DSS software
- HotSpot software - ALOHA - MARPLOT software - STEM software - CBRN-Analysis-overview

Industry & Market Relevance

- Critical skill development for first responders and decision makers. - Hands-on experience with operational software. - Understanding limitations and advantages of tools. - Enhanced interdisciplinary competence: DSS proficiency bridges technical, analytical, and managerial functions, which aligns with the growing demand for personnel who can integrate data analysis with field operations in CBRNe risk management.

Practical Training Elements

Field visits, simulations, TTX, case studies.

Trainers & Mentors

- Heads of CBRNe units from various national and international institutions - Research experts in CBRNe topics from various national and international institutions.

Course Materials Provided

Online Resources, Software Access.

Expected Career Impact

Career development and advancement.

Regional Collaboration

yes

1.5. CBRNe threats between past and current challenges

Providing Organisation: University of Rome Tor Vergata | Italy, Lazio | <https://www.cbrngate.com>

Module Type	Scientific (diversifying and deepening the scientific and CBRNE related professional knowledge of the participants)
CBRNE Domain(s)	Chemical, Biological, Radiological, Nuclear, Explosives
Duration	5 days
Delivery Method	In-Person
Training Frequency	Annually
Target Participants	Master's Students, Postgraduate/PhD Candidates, Recent graduates, Industry Professionals, First Responders
Study Level Required	Master's Degree
Prerequisites	Master's degree
Language of Instruction	English
Language Proficiency	B2
Max Participants/Session	10
Location / Venue	University of Rome Tor Vergata / training facilities in Lazio region
Course Fee	TBD
Application Process	Online form.
Certification Offered	Yes
Certification Details	Certificate of attendance by the University of Rome Tor Vergata.
Assessment Methods	Continuous assessment (e.g., participation, assignments)
Passing Criteria	18/30

Course Overview

The course provides participants with a foundational understanding of chemical, biological, radiological, nuclear, and explosive threats. It introduces first responder roles, international and national operational frameworks, and best practices for prevention and response across civilian, military, and law enforcement contexts. Participants gain familiarity with CBRNe terminology, NATO doctrine, and the distinction between operational and tactical levels, preparing them for advanced training and interdisciplinary collaboration in CBRNe scenarios.

Specific Learning Objectives

- CBRNe: introduction to the threat - CBRNe and Terrorism - CBRNe terminology - CBRNe in the Military environment - CBRNe in the Civil Defense environment - CBRNe: the NATO doctrine - CBRNe in the Law Enforcement environment - Who is a first responder - Roles and Duties - CBRNe and Medical First Response

Key Competencies Developed

By the end of the module, students will be introduced to: - the reference frameworks for both civilian and military contexts; - the concepts of operational and tactical levels.

Industry & Market Relevance

- Foundational knowledge for first responders and decision makers: This introductory module equips participants with a shared understanding of CBRNe threats, terminology, and operational frameworks, which is essential for roles in civil defense, military units, law enforcement, emergency medical services, and industrial safety. - Understanding roles and responsibilities: By emphasizing first responder duties, medical response, and operational vs. tactical levels, the course prepares participants for real-world coordination and decision-making in emergency situations, meeting the growing demand for professionals who can respond efficiently to chemical, biological, radiological, nuclear, and explosive events. - Exposure to international standards and best practices: Knowledge of NATO doctrine and cross-sectoral operational frameworks provides a competitive advantage in both civilian and military CBRNe roles, which increasingly require familiarity with standardized protocols and international collaboration. - Bridging multiple sectors: The course covers civil defense, law enforcement, military, and medical perspectives, aligning with the job market's need for personnel who can work interdisciplinarily in complex emergency scenarios.

Practical Training Elements

Field visits, simulations, TTX, case studies.

Trainers & Mentors

Heads of CBRNe units Research experts in CBRNe topics

Course Materials Provided

Online Resources Software Access

Expected Career Impact

Career development and advancement.

Regional Collaboration

yes

2. Practical Modules

Practical Modules equip participants with hands-on experience in emergency response, field applications, organisational workflows, and operational procedures. They expose participants to real operational environments through field visits, plant visits, simulations, drills, and practical involvement in end-user organisations.

2.1. Sustainable management in law enforcement

Providing Organisation: Ludovika University of Public Service | Budapest, Hungary | <https://www.uni-nke.hu/>

Module Type	Practical (field work experience, plant visits and practical involvement in operations of end-user organisations)
CBRNE Domain(s)	Chemical, Biological, Radiological, Nuclear, Explosives, Environmental
Duration	5 days
Delivery Method	In-Person
Training Frequency	One-time
Target Participants	Bachelor's Students, Master's Students, Postgraduate/PhD Candidates, Recent graduates, Industry Professionals, First Responders
Study Level Required	None
Prerequisites	English knowledge level B2
Language of Instruction	English
Language Proficiency	B2
Max Participants/Session	From day 1 to day 4: maximum 20 applicants. Day 5: maximum 50 applicants
Location / Venue	Ludovika University of Public Service, Budapest, Hungary.
Course Fee	The University shall not levy any additional participation fee for attendance in the training.
Application Process	Based on consultations with the consortium partners, talents will apply for the training programs online. Following the selection procedure, applicants will be allocated to the respective courses (talent circulation plan).
Certification Offered	Yes
Certification Details	LUPS issues an official certificate to attest successful participation in the training.
Assessment Methods	Continuous assessment (e.g., participation, assignments), Written exam
Passing Criteria	Participants must achieve a minimum of 3 points (60%) to pass the assessment (written test will contain 5 questions).

Course Overview

During the five-day course, participants will gain foundational knowledge through lectures and workshops on sustainability, industrial safety, healthcare, and CBRNE threats. Practical exposure through off-site visits and industrial excursions reinforces theoretical concepts and fosters networking opportunities with industry partners. On the last day of the training, participants will have the opportunity to attend a CBRNE-themed exhibition, where private companies will present tools and innovative technologies used in the fight against CBRNE threats. Day 1: Focus on environmental awareness, healthy lifestyles, and sustainability, with an optional visit to the Budapest Arboretum. Day 2: Exploration of the intersection between prisons and sustainability, including an afternoon off-site session. Day 3: Industrial safety and CBRN (Chemical, Biological, Radiological, Nuclear) topics, complemented by an off-site component. Day 4: Theoretical lessons on healthcare, led by multiple speakers and external experts. Day 5: Exhibition and workshops with business partners interested in CBRNE, providing opportunities for networking and applied learning.

Specific Learning Objectives

Understand the principles of sustainability and environmental awareness. Acquire basic knowledge of industrial safety and CBRNE procedures. Learn healthcare protocols and operational procedures including the decontamination procedures. Gain practical experience through off-site visits and workshops. Develop critical thinking, problem-solving, and interdisciplinary perspectives

Key Competencies Developed

Crisis management and industrial safety skills. Policy awareness and environmental responsibility. Leadership and communication skills during workshops and site visits. Technical and laboratory-related competencies in CBRNE areas.

Industry & Market Relevance

The course addresses workforce needs by focusing on sustainability, industrial safety, CBRNE knowledge, and healthcare protocols. Participants gain practical experience directly applicable in security, industrial, and research sectors.

Practical Training Elements

Off-site visits to industrial and healthcare facilities, and even detention center. Workshops and interactive seminars. Hands-on applications in the CBRNE field.

Trainers & Mentors

Daily participation of 1–5 speakers, including external experts (CBRNE, industrial safety, sustainability, healthcare). Well-trained trainers deliver lectures and coordinate site visits.

Course Materials Provided

Participants will have access to lecture materials and notes, workshop resources, and practical documentation for site visits. They will also gain hands-on experience using specialised healthcare and CBRNE training equipment.

Expected Career Impact

Improved employability in industrial safety, CBRNE, healthcare, and sustainability projects.

Regional Collaboration

Open to joint courses with other organizations.

2.2. Introduction to CBRNE related medic knowledge – General and special medic knowledge

Providing Organisation: Ludovika University of Public Service | Budapest, Hungary | <https://www.uni-nke.hu/>

Module Type	Practical (field work experience, plant visits and practical involvement in operations of end-user organisations)
CBRNE Domain(s)	Radiological, Nuclear, Explosives
Duration	4 days
Delivery Method	In-Person
Training Frequency	One-time
Target Participants	Bachelor's Students, Master's Students, Postgraduate/PhD Candidates, Recent graduates, Industry Professionals, First Responders
Study Level Required	None
Prerequisites	English knowledge level B2
Language of Instruction	English
Language Proficiency	B2
Max Participants/Session	From day 1 to day 4: maximum 20 applicants per session.
Location / Venue	Ludovika University of Public Service, Budapest, Hungary.
Course Fee	The university shall not levy any additional participation fee for attendance in the training.
Application Process	Based on consultations with the consortium partners, talents will apply for the training programs online. Following the selection procedure, applicants will be allocated to the respective courses (talent circulation plan).
Certification Offered	Yes
Certification Details	LUPS issues an official certificate to attest successful participation in the training.
Assessment Methods	Continuous assessment (e.g., participation, assignments), Practical skills evaluation / field exercise performance, Written exam
Passing Criteria	Participants must achieve a minimum of 12 points (60%) to pass the assessment (writtwn twat will contain 20 questions).

Course Overview

The course combines theoretical lectures in the morning and practical sessions in the afternoon. Participants will learn to handle radiological, nuclear, and explosive hazards safely and effectively. Day 1: Focus on general knowledge about CBRNE related terrorism. Day 2: Theoretical lessons about health care. Day 3: Theoretical CBRNE basics. Day 4: On the scene training – on site practical training including decontamination exercises and field simulations.

Specific Learning Objectives

Understand medical implications of CBRNE incidents. Perform decontamination procedures with proper use of decontamination tents and equipment. Apply safety protocols for personnel and equipment in CBRNE scenarios. Integrate theoretical knowledge into practical simulations.

Key Competencies Developed

Crisis management and emergency response skills. Practical experience with decontamination procedures and field equipment. Teamwork and leadership in high-risk environments. Policy awareness and procedural compliance for CBRNE incidents

Industry & Market Relevance

The course directly aligns with the requirements of law enforcement, defense, and public safety sectors. Participants will improve their readiness for emergency response roles and increase their employability in professional positions where specialized CBRNE knowledge and skills are essential.

Practical Training Elements

• Theoretical lectures. • Special exercises, simulations . The above training method ensures that participants can immediately apply newly acquired knowledge. Practical elements include simulations of CBRNE scenarios, hands-on exercises in decontamination tents, and field-based training activities.

Trainers & Mentors

The instructors and mentors are experts from the Counter Terrorism Centre with extensive experience in CBRNE operations and emergency medical response.

Course Materials Provided

Participants will be provided with comprehensive course materials, including a training handbook, safety manuals, online resources, and access to decontamination and protective equipment. All technical equipment required for the successful completion of the practical exercises will be provided by the organizer.

Expected Career Impact

The training is designed to enhance participants' career pathways by preparing them for emergency response, public safety, and defense roles that require specialized CBRNE medical knowledge and competencies.

Regional Collaboration

No

2.3. CBRN-E Security and Safety

Providing Organisation: International Security and Emergency Management Institute (ISEMI) | Slovakia | <https://www.isemi.sk>

Module Type	Practical (field work experience, plant visits and practical involvement in operations of end-user organisations)
CBRNE Domain(s)	Chemical, Biological, Radiological, Multi-hazard / Cross-cutting
Duration	40 hours
Delivery Method	In-Person
Training Frequency	On-demand
Target Participants	Bachelor's Students, Master's Students, Postgraduate/PhD Candidates, Recent graduates, Industry Professionals, First Responders
Study Level Required	None
Prerequisites	There are no special prerequisites.
Language of Instruction	English
Language Proficiency	B1
Max Participants/Session	20
Location / Venue	Slovakia - Žilina
Course Fee	Upon agreement
Application Process	Upon demand
Certification Offered	Yes
Certification Details	ISEM Institute has accredited training programmes by the Ministry of Education, Research, Development and Youth of the Slovak Republic. Since Slovak Republic is a member state of the EU, the certificate is EU valid.
Assessment Methods	Written exam
Passing Criteria	80%

Course Overview

The aim of the CBRN-E SAFETY educational program is to develop and improve professional knowledge and skills within the framework of lifelong non-compulsory education in the field of identifying threats associated with the accidental release or deliberate use of radioactive and nuclear materials, toxic and military chemicals, including the use of explosives, the use of biological toxins, and the spread of biological pathogens. Another objective is to develop professional knowledge and skills in the field of protection against these threats, detection and investigation of this type of crime, and its prevention.

Specific Learning Objectives

Graduates of this module will acquire professional knowledge and skills in the field of HAZMAT and CBRN incidents and the characteristics of CBRN-E substances.

Key Competencies Developed

Graduates of this module will acquire professional knowledge and skills in the field of HAZMAT and CBRN incidents and the characteristics of CBRN-E substances.

Industry & Market Relevance

We offer a CBRN educational programme that prepares professionals in the prevention, detection, and response to chemical, biological, radiological, and nuclear threats. The knowledge and skills provided through our programme are directly applicable in public institutions, security forces, and emergency services. Our graduates are equipped to meet the labour market's increasing demand for specialists capable of risk assessment and the identification of vulnerabilities in critical infrastructure. The programme enables participants to work in essential sectors such as energy, transport, healthcare, and research. We align our curriculum with the requirements of international organisations that actively seek experts in CBRN security. Participants develop strong interdisciplinary thinking, integrating science, policy, and security practice. A core element of our training is crisis management, with a focus on the ability to respond effectively under pressure. We place emphasis on communication skills, ensuring that graduates are able to clearly explain complex risks to diverse audiences. The programme also responds to the growing need for biosecurity expertise and preparedness for health-related crises, as demonstrated by recent global challenges. By providing this programme, we ensure that graduates develop competencies that are highly valued in the job market both nationally and internationally.

Practical Training Elements

Field exercise, Field visits, simulations

Trainers & Mentors

Key instructors of the training programme are experts in the field of CBRN with long year experience. Our experts are former or active soldiers, police officers or firefighters.

Course Materials Provided

Training material is PPT (sent to participants prior to the course)

Expected Career Impact

The CBRN-E training programme equips participants for careers in public institutions, international organisations, and private industry, especially in sectors such as critical infrastructure, energy, transport, and healthcare. It also opens pathways in research and academia, with strong potential for roles in policy-making, consulting, and security management. By combining technical expertise with soft skills and cross-sectoral experience, participants gain versatile career opportunities and improved employability across both academic and non-academic fields.

Regional Collaboration

ISEM Institute mostly cooperates with University of Zilina, Ministry of Interior and Ministry of Defense of the Slovak Republic

2.4. CBRN Respiratory Protection

Providing Organisation: Vinca Institute for Nuclear Sciences | Serbia | <https://www.vin.bg.ac.rs/>

Module Type	Practical (field work experience, plant visits and practical involvement in operations of end-user organisations)
CBRNE Domain(s)	Chemical, Biological, Radiological, Nuclear
Duration	3 days (15 h - 10 h theoretical lectures + 5 h practical training)
Delivery Method	In-Person
Training Frequency	On-demand
Target Participants	Master's Students, Industry Professionals, First Responders
Study Level Required	Bachelor's Degree
Prerequisites	- General Requirements: Medical clearance confirming fitness to wear respiratory protective equipment, Minimum age (e.g., 18 years), Ability to understand and follow safety instructions in English (or the course language). - Knowledge and Skills: Basic understanding of hazardous materials, contamination, and decontamination procedures; familiarity with standard operating procedures (SOPs) for personal protective equipment. - Experience: Prior experience or current employment in emergency response, defense, healthcare, research, or industrial safety sectors (recommended, not always required).
Language of Instruction	English
Language Proficiency	B2
Max Participants/Session	10
Location / Venue	Vinca Institute for Nuclear Sciences/Other location
Application Process	Online form
Certification Offered	Yes
Certification Details	Certificate of Completion issued by the Vinca Institute of Nuclear Sciences. The certificate confirms the participant's theoretical and practical competence in the use and maintenance of respiratory protective equipment in CBRN environments.
Assessment Methods	Continuous assessment (e.g., participation, assignments), Practical skills evaluation / field exercise performance
Passing Criteria	The final score combines 70% practical and 30% theoretical performance, with a minimum passing threshold of 70%. Participants showing exceptional competence may receive a "Pass with Distinction." Immediate feedback is provided during training, and final results are communicated within 10 working days. Successful candidates receive a Certificate of Completion issued by the Vinca Institute of Nuclear Sciences.

Course Overview

CBRN Respiratory Protection Course include the basic of respiratory system, selection, use, care, proper fit and medical clearance in the workplace, especially in the CBRN environment.

Specific Learning Objectives

- Understand the respiratory system—describe its structure, function, and vulnerabilities in CBRN environments;
- Select appropriate respiratory protective equipment—choose devices suitable for different chemical, biological, radiological, and nuclear hazards;
- Demonstrate correct donning and doffing—properly put on and remove respirators, ensuring an effective seal and safe use;
- Perform fit checks and maintenance—conduct seal tests, routine inspections, cleaning, and storage;
- Follow workplace safety and medical requirements.
- Recognize the need for medical clearance and comply with occupational health standards.
- Respond safely in CBRN scenarios;
- Apply practical skills to protect themselves and others in hazardous environments.

Key Competencies Developed

Practical skills

Industry & Market Relevance

This course provides practical skills in the safe selection, use, and maintenance of respiratory protective equipment, directly supporting roles in emergency response, healthcare, industry, and defense. It enhances employability and helps organizations meet occupational safety and CBRN preparedness requirements.

Practical Training Elements

The course includes hands-on exercises in the use of various respiratory protective devices, including donning, doffing, fit testing, and maintenance. Participants engage in laboratory simulations of CBRN exposure scenarios, equipment handling drills, and case studies on workplace safety and incident response.

Trainers & Mentors

Prof. Radovan Karkalic, PhD, Gvozden Tasic, PhD

Course Materials Provided

Online Resources

Expected Career Impact

Completion of the CBRN Respiratory Protection Course prepares participants for roles in emergency response, civil defense, military operations, healthcare, industrial safety, and research laboratories where handling hazardous substances is required. The training enhances occupational safety competencies, increases employability in specialized CBRN roles, and supports career progression in sectors that demand expertise in respiratory protection and hazardous environment management.

Regional Collaboration

Open to regional collaboration with partner organisations.

2.5. CBRN Body Protection

Providing Organisation: Vinca Institute for Nuclear Sciences | Serbia | <https://www.vin.bg.ac.rs/>

Module Type	Practical (field work experience, plant visits and practical involvement in operations of end-user organisations)
CBRNE Domain(s)	Chemical, Biological, Radiological, Nuclear
Duration	3 days: 15 h (10 h theoretical lectures + 5 h practical training)
Delivery Method	In-Person
Training Frequency	On-demand
Target Participants	Bachelor's Students, Master's Students, Postgraduate/PhD Candidates, Industry Professionals, First Responders
Study Level Required	Bachelor's Degree
Prerequisites	Medical clearance confirming fitness for work in protective equipment (due to physical strain and heat stress associated with PPE use).
Language of Instruction	English
Language Proficiency	B2
Max Participants/Session	10
Location / Venue	VINCA Institute, Serbia
Application Process	Online form
Certification Offered	Yes
Certification Details	Certificate of Competence in CBRN Body Protection, issued jointly by the VinCa Institute
Assessment Methods	Practical skills evaluation / field exercise performance
Passing Criteria	Theoretical Examination (30%) - Minimum 70% correct answers and Practical Evaluation (70%) - Minimum 75% score on the instructor's performance checklist

Course Overview

Eye and face protection, head protection, hand and foot protection, hearing protection, body protection, testing/seal check, usage, limits, inspection, medical conditions

Specific Learning Objectives

Understanding CBRN threats and hazards, main principles of body protection, proper selection of protective equipment, donning and doffing techniques, testing, maintenance and inspection, legal and regulatory requirements.

Key Competencies Developed

The CBRN Body Protection course develops participants' ability to safely and effectively operate in CBRN-contaminated environments. Trainees learn to select, inspect, and properly use individual protective equipment, as well as perform safe donning, doffing, and decontamination procedures. The course enhances understanding of safety standards, risk assessment, and decision-making under hazardous conditions. It also builds teamwork,

communication, and coordination skills essential for effective CBRN response operations. Participants complete the course with strong technical competence, situational awareness, and professional discipline in CBRN protection practices.

Industry & Market Relevance

The CBRN Body Protection course is highly relevant for military, civil protection, healthcare, and high-risk industry sectors where CBRN hazards exist. It equips personnel with practical skills and competencies needed to operate safely and comply with national and international safety standards. Graduates enhance organizational resilience, reduce operational risks, and contribute to the protection of personnel and the public in hazardous environments.

Practical Training Elements

Practical training - exercises

Trainers & Mentors

The CBRN Body Protection course fits the SPARKUP framework by transferring specialized knowledge through hands-on training and simulations. It strengthens scientific excellence, safety awareness, and operational skills, while promoting cross-sector collaboration. The course ensures that knowledge is effectively shared and applied in military, civil protection, and industrial contexts.

Course Materials Provided

Handbook and Online resources

Expected Career Impact

Completion of the CBRN Body Protection course prepares participants for careers in military, civil protection, emergency response, public health, and high-risk industries such as nuclear and chemical sectors. It enhances professional mobility, enabling work in national and international CBRN operations. The course also improves employability by providing recognized, specialized skills in CBRN safety and operational procedures.

Regional Collaboration

Open to regional collaboration with partner organisations.

2.6. Response to CBRN-E and HAZMAT Incidents

Providing Organisation: International Security and Emergency Management Institute (ISEMI) | Slovakia | <https://www.isemi.sk>

Module Type	Practical (field work experience, plant visits and practical involvement in operations of end-user organisations)
CBRNE Domain(s)	Chemical, Biological, Radiological, Nuclear, Explosives, Multi-hazard / Cross-cutting
Duration	5 days/1 week
Delivery Method	In-Person
Training Frequency	On-demand
Target Participants	There are no specific target groups.
Study Level Required	high school education with a diploma
Prerequisites	No specific prerequisites
Language of Instruction	English primarily, but upon-demand courses can be organised in any agreed language.
Language Proficiency	B2
Max Participants/Session	20
Location / Venue	Slovakia
Course Fee	Upon-demand
Application Process	Upon-demand
Certification Offered	Yes
Certification Details	Participants of the educational programme "Response to CBRN-E and HAZMAT Incidents" will receive Certificate accredited by the Ministry of Education, Research, Development and Youth of the Slovak Republic. Since Slovak Republic is part of the European Union, certificate is valid across all EU Member States.
Assessment Methods	Written exam
Passing Criteria	80 %

Course Overview

The course is composed of modules: Module 1 CBRN-E and HAZMAT incident response, threat recognition, hazardous waste management and recovery of the affected area Module 2 Activities of first responders in CBRN-E and HAZMAT incident Module 3 Activities of second responders - specialists in CBRN-E and HAZMAT incident Module 4 Activities of Special Operation Armed Response Teams (SWAT) in a CBRN-E criminal incident Module 5 Specialised activities of third responders - crime scene investigation and victim identification in a CBRN-E criminal incident Module 6 Specialised activities in the protection of constitutional officials or VIPs in the context of a CBRN-E criminal incidents Module 7 Exercise of Integrated Rescue System units during a CBRN-E incident Module 8 Specialised pre-hospital emergency medical care activities in a CBRN-E incident

Specific Learning Objectives

Graduates will acquire professional knowledge in all areas listed as individual modules.

Key Competencies Developed

Practical skills

Industry & Market Relevance

The course responds to increasing risks, a shortage of specialized professionals, and the growing demand for international safety standards. Its content is therefore directly aligned with the current and future needs of the European and global job market.

Practical Training Elements

Theoretical training and also practical field exercise.

Trainers & Mentors

This course are security managers and CBRN experts.

Course Materials Provided

Presentations, videos.

Regional Collaboration

Open to regional collaboration with partner organisations.

2.7. Trauma and Disaster Team Response (TDTR)

Providing Organisation: United Nations Institute for Training and Research (UNITAR) | International Organization with HQ in Switzerland (33 Training Centers around the world) | <https://unitar.org/>

Module Type	Practical (field work experience, plant visits and practical involvement in operations of end-user organisations)
CBRNE Domain(s)	Multi-hazard / Cross-cutting
Duration	2 days
Delivery Method	Hybrid
Training Frequency	One-time
Target Participants	Industry Professionals, First Responders, Designed for trauma teams. Including surgeons, nurses, emergency physicians, anesthesiologists, and other allied health professionals.
Study Level Required	Industry Experience
Prerequisites	practical experience
Language of Instruction	French
Language Proficiency	B1
Location / Venue	online+Tanzania, Nepal, Palestine, Senegal etc.
Course Fee	Free
Application Process	Online registration
Certification Offered	Yes
Assessment Methods	Continuous assessment (e.g., participation, assignments), Practical skills evaluation / field exercise performance

Course Overview

Provides essential training for healthcare professionals involved in emergency and disaster care. It introduces core principles of trauma management, team coordination, and mass-casualty response. Through online modules and interactive exercises, participants gain the knowledge and confidence to deliver effective, team-based trauma care in both routine emergencies and large-scale disasters.

Specific Learning Objectives

By the end of the course, participants will be able to: Understand the global burden of trauma and disaster response systems. Define team roles and ensure effective trauma-team coordination. Apply key trauma assessment and resuscitation principles (ABCDE). Demonstrate essential technical and triage skills in mass-casualty settings. Adapt trauma care strategies to low-resource or crisis environments.

Key Competencies Developed

technical skills

Industry & Market Relevance

This free online course focuses on trauma management in disaster and mass-casualty contexts, emphasizing a multi-disciplinary team approach (surgeons, nurses, emergency physicians, anaesthesiologists and other allied health professionals). As incidents of natural

hazards, conflict, large-scale accidents and humanitarian emergencies grow in frequency, healthcare systems demand professionals who not only manage trauma but can operate effectively in high-stress, team-based disaster environments. The skillset addressed here aligns well with needs in emergency departments, trauma centres, humanitarian medical response teams and surgical/global-health units.

Practical Training Elements

Team drills and simulation training

Expected Career Impact

Successful participants will be better positioned for roles such as trauma team leader, emergency/disaster medicine specialist, medical officer in humanitarian or crisis response settings, global health surgical response coordinator, or consultant/educator in trauma/disaster preparedness programmes. The credential enhances one's profile in settings where trauma care intersects emergency/disaster response and global health, thus opening pathways in hospitals, humanitarian NGOs, international response agencies and global surgery initiatives.

Regional Collaboration

yes, already in partnership with McGill University Global Surgical Center (CGS)

2.8. Nanomaterials Safety Course

Providing Organisation: United Nations Institute for Training and Research (UNITAR) | International Organization with HQ in Switzerland (33 Training Centers around the world | <https://unitar.org/>)

Module Type	Practical (field work experience, plant visits and practical involvement in operations of end-user organisations)
CBRNE Domain(s)	Chemical
Duration	5 Days
Delivery Method	Online
Training Frequency	One-time
Target Participants	Bachelor's Students, Master's Students, Postgraduate/PhD Candidates, Recent graduates, Industry Professionals, First Responders
Study Level Required	None
Language of Instruction	English
Language Proficiency	B1
Location / Venue	Online
Course Fee	Free
Application Process	Online registration
Certification Offered	Yes
Assessment Methods	Continuous assessment (e.g., participation, assignments)
Passing Criteria	70%

Course Overview

The e-Learning course "Nanomaterials Safety" provides interested stakeholders an introduction to the sound management of manufactured nanomaterials. Nanomaterials have a range of novel properties enabling many new, useful applications in areas such as medicine, environment, energy production and material technology. However, the special properties of nanomaterials can also be a challenge, as these materials may have different implications for human health or the environment compared to traditional chemicals. The course has been developed by UNITAR, based on work under the Strategic Approach to International Chemicals Management (SAICM) and by other international organizations, such as the Organisation for Economic Cooperation and Development (OECD).

Specific Learning Objectives

Participants will learn about global, national and sector-specific issues, and begin to develop skills for recognising safety concerns and learning about risk management. After completing the course, participants will be able to: Discuss properties, uses, and safety issues of nano-containing products ; Classify hazard, exposure and risk assessments, and options; Identify opportunities and challenges to regulate nanomaterials; Discuss international and national regulatory approaches; Differentiate applications and uses of nanomaterials to improve environmental, health, and safety issues.

Key Competencies Developed

Technical skills

Industry & Market Relevance

The Nanomaterials Safety Course addresses a rapidly expanding sector: manufactured nanomaterials are increasingly used in medicine, energy, materials and consumer goods, and yet their novel properties present emerging challenges for human-health, environmental and safety management. As regulatory frameworks tighten and industries move toward sustainable practices, the ability to understand, assess and manage risks of nanomaterials becomes a valuable competency in chemical safety, occupational health, regulatory compliance, R&D and manufacturing sectors.

Practical Training Elements

The course, about 30-40 hours to complete, is self-paced and adapted to the schedule of full-time working professionals, . Participants are provided with the opportunity to learn through various experiences: absorb (read); interact (activity); and reflect (relate to one's own reality). This includes videos, interactive lessons, reading materials and quizzes. The 3 modules of the course are self-standing and can be completed in any order. However, it is recommended that learners complete the Introductory module first.

Expected Career Impact

Upon completion, participants will be well-positioned for roles such as occupational health & safety specialist for nanomaterials, regulatory compliance officer in chemicals/manufacturing, product-stewardship analyst for nanotechnology applications, risk-assessment consultant in emerging materials, or policy advisor in national agencies dealing with chemicals and waste. The UNITAR certificate signals readiness for roles at the intersection of emerging materials science, safety management and regulatory governance — enhancing employability and mobility in the evolving nano-materials safety domain.

Regional Collaboration

Yes, already in cooperation with FOEN

2.9. Training in BioThreat Preparedness and Response – Advanced Level

Providing Organisation: Vinca Institute for Nuclear Sciences | Serbia | <https://www.vin.bg.ac.rs/>

Module Type	Practical (field work experience, plant visits and practical involvement in operations of end-user organisations)
CBRNE Domain(s)	Biological
Duration	5 days
Delivery Method	In-Person
Training Frequency	On-demand
Target Participants	First responders, emergency personnel, policeman, military and professionals with experience or training in public health, CBRN operations or related fields
Study Level Required	No formal academic degree is required, but participants must be prepared to effectively operate in biological threat scenarios
Prerequisites	Successful completion of Training in BioThreat Preparedness and Response – Basic Level (or an equivalent CBRN introductory program in the field of biology) or adequate experience in security operations and emergency response
Language of Instruction	English
Language Proficiency	B2
Application Process	Directly through UCIPS Center of Excellence or via their national authorities
Certification Offered	Yes
Assessment Methods	Continuous assessment (e.g., participation, assignments), Practical skills evaluation / field exercise performance, Written exam, Simulation-based assessment

Course Overview

The intensive five-day program is designed to strengthen participants' capability to build operational competence in addressing biological threat incidents, integrating risk management principles, with practical application across the response cycle. Training features scenario-driven modules with real-world biological incidents, combining theoretical instruction, laboratory work, table-top simulations, and field drills to develop analytical thinking, procedural accuracy, teamwork, and tactical readiness. Throughout the course, participants will be challenged with progressively complex tasks that require critical decision-making and the application of leadership skills in dynamic operational situations.

Specific Learning Objectives

Participants will develop advanced operational and risk management skills across the response cycle, engaging in scenario-driven role-play exercises. They will distinguish classical vs. CBRNE forensic sampling, and gain proficiency in chain of command, chain of custody, triage, detection, and analysis of biological agents, reporting and implement protective measures and decontamination procedures to safeguard personnel and the environment. Throughout the course, participants will make timely, critical decisions using analytical

thinking, leadership, and teamwork in dynamic scenarios, while adapting response strategies to evolving threats to maintain operational effectiveness.

Key Competencies Developed

Participants enhance their competencies in biological threat management, integrating risk assessment, operational decision-making, and incident coordination under high-pressure conditions. The training strengthens proficiency in sampling, detection, protective measures, and decontamination procedures, emphasizing biosafety, accuracy, and teamwork. Through scenario-based and field exercises, participants gain hands-on experience across the response cycle, including reporting and documentation, enhancing their capability to lead, communicate, and perform effectively in complex biological emergencies.

Industry & Market Relevance

The course meets the growing need for skilled professionals in emergency response, public health, and biosafety. It provides practical skills in biological incident management, containment, and operational decision-making applicable to defense, healthcare, research, and international organizations. Combining scientific knowledge with field practice, it strengthens employability and prepares participants for advanced roles in biological threat management.

Practical Training Elements

Simulations of CBRN-Bio incidents, include Table-Top Exercises (TTX), Risk Management Exercises, Command and Leadership Exercises, as well as standard and mobile Laboratory, Hands-on, and Field-based trainings.

Expected Career Impact

This advanced training strengthens participants' competencies in biological threat preparedness and response, enabling them to pursue more specialized, operational, and leadership roles within CBRN-Bio fields. The program supports career pathways in emergency response, public health, biosafety, biodefense, security operations, and laboratory-based incident management. By gaining hands-on experience in detection, sampling, risk assessment, operational decision-making, and multi-agency coordination, participants become well-prepared for positions in national and international institutions, research and healthcare sectors, and specialized CBRN units. The certification enhances professional credibility and opens opportunities for advancement to tactical and strategic roles in biosecurity, crisis management, and CBRN command structures.

Regional Collaboration

yes

2.10. CWA Practitioner

Providing Organisation: Core CBRN International B.V. | the Netherlands | <https://corecbrn.com/>

Module Type	Practical (field work experience, plant visits and practical involvement in operations of end-user organisations)
CBRNE Domain(s)	Chemical
Duration	2 days
Delivery Method	In-Person
Training Frequency	On-demand
Target Participants	Bachelor's Students, Master's Students, Postgraduate/PhD Candidates, Recent graduates, Industry Professionals, First Responders
Study Level Required	None
Prerequisites	English knowledge level B2, CWA General Awareness, Medical clearance to work in personal protective equipment.
Language of Instruction	English
Language Proficiency	B2
Max Participants/Session	8-10
Location / Venue	The HiddingenTestCenter, Germany.
Application Process	Upon demand
Certification Offered	Yes
Certification Details	Certificate of Completion issued by the Core CBRN International.
Assessment Methods	Continuous assessment (e.g., participation, assignments), Practical skills evaluation / field exercise performance
Passing Criteria	Participants are required to demonstrate proficiency in correctly donning and doffing PPE and in operating detection equipment.

Course Overview

This two-day practical course provides participants with essential competencies for working safely and effectively in environments involving CWA simulants. Through a combination of classroom instruction and hands-on exercises, practitioners learn correct procedures for donning and doffing personal protective equipment and gain practical experience operating chemical detectors in field conditions using CWA simulants. The course strengthens operational readiness and ensures participants can confidently apply safety protocols and detection techniques in real-world scenarios.

Specific Learning Objectives

At the end of this training, the participant will: 1. Demonstrate correct procedures for donning and doffing personal protective equipment (PPE) in accordance with safety standards. 2. Identify the functions, limitations, and appropriate applications of various types of chemical detection equipment. 3. Operate chemical detectors safely and effectively in

field detection scenarios. 4. Improve situational awareness and decision-making skills when working in environments requiring chemical hazard detection and protection.

Key Competencies Developed

The following Key competencies will be developed: 1. Correct donning and doffing of personal protective equipment (PPE) 2. Safe operation of chemical detectors 3. Awareness of chemical hazards and safe handling procedures 4. Application of safety protocols and risk management 5. Enhanced situational awareness and operational readiness

Industry & Market Relevance

This course addresses growing demand for professionals with expertise in chemical hazard awareness, PPE handling, and chemical detection. By providing theoretical knowledge and practical skills, it equips participants for roles in emergency response, public safety, security, and CBRN-related operations. The training enhances employability and supports career progression in sectors where chemical safety and rapid, informed response are essential.

Practical Training Elements

The course combines classroom-based theoretical instruction with hands-on practical exercises conducted in a Schedule 1 facility. Participants engage in the correct donning and doffing of personal protective equipment and gain experience operating chemical detectors in field conditions using CWA simulants. The training emphasizes applied skills in realistic scenarios to reinforce safety protocols and detection techniques, enhancing operational readiness and confidence.

Trainers & Mentors

Our instructors bring extensive field experience gained through their work with the UN Mission to Investigate Allegations of the Use of Chemical Weapons in the Syrian Arab Republic (August 2013), the OPCW-UN Joint Mission in Syria, the OPCW-UN Joint Investigative Mechanism, Ebola and COVID-19 response efforts, and support provided during the Navalny investigation.

Expected Career Impact

This course provides participants with a solid theoretical foundation in Chemical Warfare Agents and CBRN safety, equipping them with knowledge essential for roles in emergency response, public safety, security, and CBRN-related operations. It supports career progression by enhancing employability, preparing participants for positions that require specialized chemical hazard awareness, operational safety expertise, and the ability to apply safety protocols and detection techniques in professional contexts.

Regional Collaboration

yes

2.11. Training for the detection and deactivation of illegal laboratories for the production of psychoactive substances, precursors and preprecursors – basic level

Providing Organisation: University of Criminal Investigation and Police Studies (UCPS) | Serbia, Belgrade | www.kpu.edu.rs/cms/

Module Type	Practical (field work experience, plant visits and practical involvement in operations of end-user organisations)
CBRNE Domain(s)	Multi-hazard / Cross-cutting
Duration	10 days
Delivery Method	In-Person
Training Frequency	On-demand
Target Participants	Work experience as a police officer or first responder – minimum 3 years
Study Level Required	Enrolled in a Bachelor's Studies
Prerequisites	Satisfactory level of course language knowledge, First Responders and Police officers with at least 3 years work experience and letter of recommendation from employer.
Language of Instruction	English
Language Proficiency	B1
Max Participants/Session	20
Location / Venue	UCPS and/or other locations
Course Fee	Course fees are determined upon request, adaptable to the delivery format, duration, and participant profile.
Application Process	Trough Ministry of Interior and UCPS's CBRNE Center of Excellence
Certification Offered	Yes
Certification Details	Certificate of Successful Completion for the Course Detection and Deactivation of Illegal Laboratories for the Production of Psychoactive Substances, Precursors and Preprecursors – Basic Level
Assessment Methods	Practical skills evaluation / field exercise performance, Written exam, Simulation-based assessment
Passing Criteria	75%

Course Overview

This basic-level professional training equips police officers and first responders with foundational knowledge, technical skills, and standardized procedures for detecting, entering, securing, and deactivating illegal laboratories used in the production of psychoactive substances. The course combines theoretical instruction with intensive practical exercises in simulated clandestine laboratory environments.

Specific Learning Objectives

Participants will learn to: Plan operational actions and laboratory entry Conduct risk assessments and implement risk-control measures Apply safety and security procedures Arrest suspects safely Deactivate production units Conduct crime scene investigations and secure the scene Preserve evidence according to forensic standards Identify chemicals, equipment, and synthesis methods Monitor air quality (oxygen, explosiveness, presence of toxic gases) Apply personal protective equipment (PPE) and decontamination procedures Neutralize criminal countermeasures Communicate effectively within operational teams

Key Competencies Developed

Participants will acquire competencies in: Illegal laboratory detection Operational planning and tactical entry Risk management and hazard control Arrest and suspect handling Scene preservation and evidence collection Laboratory process deactivation Emergency response and mitigation Chemical recognition and hazardous material identification Use of protective equipment and decontamination Technical communication and coordination with superiors and team members

Industry & Market Relevance

This training supports frontline practitioners in identifying and disrupting illegal drug production operations. It is directly relevant to law-enforcement roles involving narcotics enforcement, hazardous environments, and organized crime investigations. Primary sector: Ministry of Interior and police services.

Practical Training Elements

Training includes: Safe approach, entry, and navigation of illegal laboratories Deactivation of production units and emergency control measures Collection, preservation, and documentation of evidence Air quality measurement and hazard identification Decontamination procedures for personnel and suspects Operational communication and coordination Simulations are supported by laboratory equipment and participant handbooks.

Course Materials Provided

Handbook is provided.

Expected Career Impact

This training enhances career prospects by equipping participants with specialised skills in identifying, securing, and dismantling illegal laboratories, competencies highly valued in law enforcement, forensic, and CBRNE response sectors. Graduates are well-positioned for advancement within police forces, counter-narcotics units, forensic laboratories, crime scene investigation teams, and Ministries of Interior, where expertise in hazardous environments is essential. The certification also supports access to specialised CBRNE roles, including chemical threat response, hazardous materials operations, and cross-border investigations, while providing a strong foundation for further training in forensic science, chemical safety, intelligence analysis, and international security cooperation.

Regional Collaboration

Yes, the program can be opened to regional collaboration by partnering with police academies, CBRNE centres, forensic institutes, and security organizations to co-organize joint training activities.

3. Soft Skills & Transferable Knowledge Modules

Soft Skills & Transferable Knowledge Modules support the development of transversal competences for better employability and professional development. They cover research funding, project management, entrepreneurship, communication strategies, legal compliance, and disaster risk governance.

3.1. Competitive Proposal Development and Writing for EU Research Funding

Providing Organisation: Privanova | France | <https://www.privanova.com/>

Module Type	Soft Skills (soft-skill, social awareness and horizontal knowledge development for better employability and overall development of entrepreneurship and professional skills of the talents)
CBRNE Domain(s)	soft skills
Duration	4 days
Delivery Method	Online
Training Frequency	One-time
Target Participants	Bachelor's Students, Master's Students, Postgraduate/PhD Candidates, Recent graduates, Industry Professionals, First Responders
Study Level Required	None
Language of Instruction	English
Language Proficiency	B1
Max Participants/Session	40 participants
Location / Venue	Online
Application Process	Based on consultations with the consortium partners, talents will apply for the training programs online
Certification Offered	No
Assessment Methods	Practical skills evaluation / field exercise performance

Course Overview

This intensive 4-day workshop equips participants with the knowledge and skills to develop competitive and well-structured funding proposals. Through expert-led sessions, practical exercises, and real-life examples, participants learn how to interpret call requirements, build logical frameworks, structure work packages, and write compelling sections. The final day focuses on drafting a mini-proposal, giving participants practical experience under guided mentorship.

Specific Learning Objectives

Participants will acquire the ability to design, structure, and write competitive research proposals for EU and international funding programmes. They will gain an in-depth understanding of the proposal evaluation process, learn how to align project ideas with funding priorities, and master techniques for articulating impact, innovation, and excellence.

Key Competencies Developed

Consortium Building (tools, resources and networks for a balanced, geographically distributed well-managed consortium that can cover all the call requirements), and Proposal Drafting (streamlined process, tools and templates for the successful management of the proposal drafting tasks)

Industry & Market Relevance

There is a strong and growing demand across Europe for professionals who can successfully secure research and innovation funding. The ability to write competitive proposals is a critical asset for researchers, consultants, project managers, and innovation officers in both public and private sectors. This course responds directly to these market needs by equipping participants with practical, employer-valued skills in funding strategy, project design, and stakeholder communication, enhancing their performance and promotion potential in academia, industry, and non-profit organizations alike.

Practical Training Elements

Lecturer presentations – structured knowledge transfer on preparing EU proposal. Real industrial case studies – lessons from practice and regulatory challenges. Interactive Q&A sessions – dialogue, clarification, and shared perspectives.

Trainers & Mentors

Mr. Djordje Djokic - Partner & Co-founder of Privanova, Senior Data Protection executive
Mr. Farhan Sahito - Partner & Co-founder of Privanova, Ph.D. in Cybersecurity
Mr. Attila Wootsch - Research and Innovation, Ph.D. in Chemical Engineering
Ms. Dijana Stefanovic - Project Manager, MSc in Engineering Management

Course Materials Provided

Training material is PPT (sent to participants prior to the course)

Expected Career Impact

Participants completing this workshop will gain a competitive edge in roles that require expertise in research funding acquisition, project design, and innovation management. The course opens diverse professional pathways in universities, research organizations, public institutions, consulting firms, and private industry, where the ability to develop successful funding proposals is highly valued. By mastering the art of proposal drafting, participants enhance their employability and professional mobility within the European Research Area and beyond, contributing to the creation and management of high-impact, cross-border research initiatives.

Regional Collaboration

Open to regional collaboration with partner organisations.

3.2. Advanced Financial Management and Reporting for EU Research Projects

Providing Organisation: Privanova | France | <https://www.privanova.com/>

Module Type	Soft Skills (soft-skill, social awareness and horizontal knowledge development for better employability and overall development of entrepreneurship and professional skills of the talents)
Duration	4 days
Delivery Method	In-Person
Training Frequency	One-time
Target Participants	Bachelor's Students, Master's Students, Postgraduate/PhD Candidates, Recent graduates, Industry Professionals, First Responders
Study Level Required	None
Language of Instruction	English
Language Proficiency	B2
Max Participants/Session	20
Location / Venue	Budapest
Application Process	Based on consultations with the consortium partners, talents will apply for the training programs online
Certification Offered	No
Assessment Methods	Practical skills evaluation / field exercise performance

Course Overview

This workshop provides participants with advanced knowledge of project financial management, including budgeting, cost eligibility, financial reporting, and audit readiness. Participants explore real-life case studies, practice financial decision-making, and learn how to develop accurate and transparent financial reports. The final practical day focuses on preparing a financial plan for a sample project.

Specific Learning Objectives

Participants will develop both strategic and operational understanding of EU financial management, including: Building and managing project budgets with full cost transparency Applying eligibility criteria for costs and expenses Preparing and validating financial reports and audits Identifying and preventing common financial errors Using digital tools for efficient financial tracking and reporting They will also gain confidence in communicating with auditors, partners, and funding bodies on financial matters.

Key Competencies Developed

Financial literacy, analytical reasoning, risk management, compliance assurance, attention to detail, strategic decision-making, and leadership in administrative coordination.

Industry & Market Relevance

There is increasing demand for skilled financial officers and administrators who can manage complex multi-partner EU projects. This training directly addresses that need by

preparing participants for roles that require knowledge of EU financial regulations, audit readiness, and compliance reporting. The acquired skills are immediately applicable in research organizations, universities, funding agencies, consultancy firms, and innovation-driven companies managing public grants.

Practical Training Elements

Lecturer presentations – structured knowledge transfer on preparing EU proposal. Real industrial case studies – lessons from practice and regulatory challenges. Interactive Q&A sessions – dialogue, clarification, and shared perspectives.

Trainers & Mentors

Mr. Djordje Djokic - Partner & Co-founder of Privanova, Senior Data Protection executive
Mr. Farhan Sahito - Partner & Co-founder of Privanova, Ph.D. in Cybersecurity
Mr. Attila Wootsch - Research and Innovation, Ph.D. in Chemical Engineering
Ms. Dijana Stefanovic - Project Manager, MSc in Engineering Management

Course Materials Provided

Training material is PPT (sent to participants prior to the course)

Expected Career Impact

Graduates of this workshop are well prepared for advanced roles such as: EU Project Financial Officers Grant Administrators and Compliance Managers Research Finance Coordinators Auditors and Financial Controllers Consultants in EU Funding and Risk Management These roles are in high demand across universities, research institutes, NGOs, and private companies engaged in EU-funded activities. Participants will leave with recognized, transferable skills that enhance both career progression and international mobility in the European research and innovation landscape.

Regional Collaboration

Open to joint courses with other organizations

3.3. Business Model Design and Planning for Innovators and Entrepreneurs

Providing Organisation: Privanova | France | <https://www.privanova.com/>

Module Type	Soft Skills (soft-skill, social awareness and horizontal knowledge development for better employability and overall development of entrepreneurship and professional skills of the talents)
Duration	4 days
Delivery Method	Online
Training Frequency	One-time
Target Participants	Bachelor's Students, Master's Students, Postgraduate/PhD Candidates, Recent graduates
Study Level Required	None
Language of Instruction	English
Language Proficiency	B1
Max Participants/Session	40
Location / Venue	Online
Application Process	Based on consultations with the consortium partners, talents will apply for the training programs online
Certification Offered	No
Assessment Methods	Practical skills evaluation / field exercise performance

Course Overview

Designed for innovators and entrepreneurs, this workshop guides participants through the essentials of business model design and business planning. Using tools like the Business Model Canvas, participants learn to translate ideas into viable business strategies. The last day is dedicated to drafting a basic business plan and pitching it to peers and trainers.

Specific Learning Objectives

Participants will learn to: Transform innovative ideas into structured business models
Conduct market research and competitive analysis
Define value propositions, revenue streams, and cost structures
Present and defend business plans to stakeholders
Collaborate effectively in entrepreneurial teams

Key Competencies Developed

Entrepreneurship, Strategic thinking, Leadership, Innovation management, Communication and pitching skills, Analytical reasoning.

Industry & Market Relevance

The course addresses high-demand competencies for startups, SMEs, innovation-driven R&D, and intrapreneurship roles in established companies. Participants gain skills directly applicable to roles in innovation management, business development, venture creation, and consultancy, enhancing employability across multiple sectors, including technology, sustainability, digital services, and green innovation.

Practical Training Elements

Lecturer presentations – structured knowledge transfer on preparing EU proposal. Real industrial case studies – lessons from practice and regulatory challenges. Interactive Q&A sessions – dialogue, clarification, and shared perspectives.

Trainers & Mentors

Mr. Djordje Djokic - Partner & Co-founder of Privanova, Senior Data Protection executive
Mr. Farhan Sahito - Partner & Co-founder of Privanova, Ph.D. in Cybersecurity
Mr. Attila Wootsch - Research and Innovation, Ph.D. in Chemical Engineering
Ms. Dijana Stefanovic - Project Manager, MSc in Engineering Management

Course Materials Provided

Training material is PPT (sent to participants prior to the course)

Expected Career Impact

Graduates will be prepared for roles in: Entrepreneurship and startup leadership
Innovation and business development management
Intrapreneurship in established companies
Consultancy in innovation and strategy
Venture creation, incubators, and accelerators
Participants gain highly transferable skills, enhancing employability, career mobility, and capacity to launch, manage, or advise innovative ventures in both research and industry contexts.

3.4. Effective Communication and Impact Strategies for EU Research Projects

Providing Organisation: Privanova | France | <https://www.privanova.com/>

Module Type	Soft Skills (soft-skill, social awareness and horizontal knowledge development for better employability and overall development of entrepreneurship and professional skills of the talents)
Duration	4 days
Delivery Method	In-Person
Training Frequency	One-time
Target Participants	Bachelor's Students, Master's Students, Postgraduate/PhD Candidates, Recent graduates, Industry Professionals, First Responders
Study Level Required	None
Language of Instruction	English
Language Proficiency	B2
Max Participants/Session	20
Location / Venue	Belgrade
Application Process	Based on consultations with the consortium partners, talents will apply for the training programs online
Certification Offered	No
Assessment Methods	Practical skills evaluation / field exercise performance

Course Overview

This workshop develops advanced skills in communicating project results to stakeholders, policymakers, and the public. Participants learn to design dissemination strategies, create impact-driven communication plans, and explore exploitation pathways. The final day features a group exercise where teams prepare a dissemination and exploitation plan for a hypothetical project.

Specific Learning Objectives

Participants will learn to: Develop tailored dissemination and communication strategies
Engage stakeholders, partners, and target audiences effectively
Identify and plan exploitation pathways for research outputs
Utilize digital and traditional communication channels
Assess and measure the impact of dissemination activities
Work collaboratively in multi-stakeholder teams

Key Competencies Developed

Strategic communication, Policy awareness, Stakeholder engagement, Project management, Leadership, Innovation impact assessment.

Industry & Market Relevance

There is a growing demand for professionals capable of maximizing the visibility and impact of research projects. Competencies in communication, stakeholder engagement, and exploitation planning are increasingly required in universities, research institutions,

NGOs, consultancy firms, and innovation-driven companies. Participants leave equipped with skills directly applicable to roles in research management, project coordination, and knowledge transfer.

Practical Training Elements

Lecturer presentations – structured knowledge transfer on preparing EU proposal. Real industrial case studies – lessons from practice and regulatory challenges. Interactive Q&A sessions – dialogue, clarification, and shared perspectives.

Trainers & Mentors

Mr. Djordje Djokic - Partner & Co-founder of Privanova, Senior Data Protection executive
Mr. Farhan Sahito - Partner & Co-founder of Privanova, Ph.D. in Cybersecurity
Mr. Attila Wootsch - Research and Innovation, Ph.D. in Chemical Engineering
Ms. Dijana Stefanovic - Project Manager, MSc in Engineering Management

Course Materials Provided

Training material is PPT (sent to participants prior to the course)

Expected Career Impact

Participants are prepared for roles such as: Dissemination and Communication Officers
Project Coordinators and Research Managers
Knowledge Transfer and Innovation Advisors
Consultants in research impact, science communication, and exploitation planning
The course enhances participants' employability, career progression, and professional mobility, enabling them to contribute to high-impact research and innovation initiatives across sectors.

3.5. Navigating Legal, Ethical, and Data Management Compliance in EU Research Projects

Providing Organisation: Privanova | France | <https://www.privanova.com/>

Module Type	Soft Skills (soft-skill, social awareness and horizontal knowledge development for better employability and overall development of entrepreneurship and professional skills of the talents)
Duration	4 days
Delivery Method	Online
Training Frequency	One-time
Target Participants	Bachelor's Students, Master's Students, Postgraduate/PhD Candidates, Recent graduates, Industry Professionals, First Responders
Study Level Required	None
Language of Instruction	English
Language Proficiency	B2
Max Participants/Session	40
Location / Venue	Online
Application Process	Based on consultations with the consortium partners, talents will apply for the training programs online
Certification Offered	No
Assessment Methods	Practical skills evaluation / field exercise performance

Course Overview

This workshop provides practical insights into GDPR compliance, ethical data handling, and secure data management in research. Participants explore real-world compliance scenarios, perform risk assessments, and prepare a mock Data Management Plan (DMP). The final day focuses on drafting compliance documents for a case study project.

Specific Learning Objectives

Participants will learn to: Interpret GDPR and other relevant data protection regulations
Apply best practices in data collection, storage, and sharing
Conduct compliance risk assessments
Develop Data Management Plans tailored to research projects
Ensure ethical and secure handling of sensitive and personal data
Communicate compliance requirements to project partners

Key Competencies Developed

Policy and regulatory awareness, Data security, Risk management, Ethical reasoning, Technical compliance, Analytical thinking.

Industry & Market Relevance

The demand for data protection and compliance specialists is rapidly growing across research institutions, universities, private sector companies, and NGOs. Participants gain skills essential for managing data in EU-funded projects, supporting roles such as Data Protection Officers, Research Managers, IT compliance specialists, and legal advisors,

making them highly employable and capable of ensuring organizational compliance with evolving regulations.

Practical Training Elements

Lecturer presentations – structured knowledge transfer on preparing EU proposal.

Trainers & Mentors

Mr. Djordje Djokic - Partner & Co-founder of Privanova, Senior Data Protection executive
Mr. Farhan Sahito - Partner & Co-founder of Privanova, Ph.D. in Cybersecurity
Mr. Attila Wootsch - Research and Innovation, Ph.D. in Chemical Engineering
Ms. Dijana Stefanovic - Project Manager, MSc in Engineering Management

Course Materials Provided

Training material is PPT (sent to participants prior to the course)

Expected Career Impact

Participants will be prepared for roles such as: Data Protection Officers (DPOs) Research Compliance and Project Managers IT Compliance Specialists Legal Advisors for research projects Policy and Ethics Consultants The course enhances employability and professional mobility by equipping participants with highly valued regulatory, technical, and ethical competencies essential for managing EU and international research projects.

3.6. Words into Action: National Disaster Risk Assessment - Toolkit for National Practitioners

Providing Organisation: United Nations Institute for Training and Research (UNITAR) | International Organization with HQ in Switzerland (33 Training Centers around the world) | <https://unitar.org/>

Module Type	Soft Skills (soft-skill, social awareness and horizontal knowledge development for better employability and overall development of entrepreneurship and professional skills of the talents)
CBRNE Domain(s)	Multi-hazard / Cross-cutting
Duration	2 months
Delivery Method	Online
Training Frequency	One-time
Target Participants	Industry Professionals, '-Leads of NDRA authorities -National Government Ministries -Related National Technical Institutions, such as hydrometeorological department. -Practitioners of Disaster Risk Management at national, subnational, and local levels. This includes regional and global development institutions, technical experts, academics, and research centers on knowledge creation.
Study Level Required	None
Language of Instruction	English
Language Proficiency	B1
Location / Venue	online
Course Fee	free
Application Process	Online registration
Certification Offered	Yes
Assessment Methods	Continuous assessment (e.g., participation, assignments), Written exam

Course Overview

The e-learning course aims to motivate and guide countries in establishing a national system for understanding disaster risk, serving as a central repository for publicly available risk information. This system will oversee the implementation and updates of national disaster risk assessments to inform disaster risk management, risk reduction strategies, and development plans. The e-learning course aims to motivate and guide countries in establishing a national system for understanding disaster risk, serving as a central repository for publicly available risk information. This system will oversee the implementation and updates of national disaster risk assessments to inform disaster risk management, risk reduction strategies, and development plans.

Specific Learning Objectives

At the end of the course, participants will be able to: Develop a detailed disaster risk assessment plan using NDRA guidelines that incorporates risk considerations, addressing the needs of all government levels and sectors. Implement practical disaster risk

assessment plan by transforming knowledge into actionable plans. Apply a step-by-step approach to execute NDRA strategies that demonstrate alignment with national governance frameworks. Demonstrate proficiency in using the NDRA detailed tool annexes as practical tools and apply the guidelines effectively in various disaster risk assessments for specific sectors, regions, and real-world disaster risk management scenarios

Key Competencies Developed

Crisis management, Leadership

Industry & Market Relevance

This course addresses a growing global need for professionals capable of designing and implementing national disaster risk assessments. As governments and development agencies increasingly adopt evidence-based and risk-informed planning, practitioners who understand how to operationalize disaster risk frameworks are in high demand. The course directly aligns with job market needs in public administration, disaster risk reduction, sustainable development, and resilience policy.

Practical Training Elements

case studies

Expected Career Impact

Participants of this course will be well-prepared for positions such as national risk assessment officers, disaster policy analysts, planning advisors, or consultants for UN agencies, government ministries, and international NGOs. The UNITAR certification enhances credibility in resilience and risk governance fields, opening pathways toward leadership roles in disaster management, sustainable development planning, and institutional coordination.

Regional Collaboration

Yes, already in cooperation with UNDRR

3.7. Monitoring & Evaluation of Early Warning for All

Providing Organisation: United Nations Institute for Training and Research (UNITAR) | International Organization with HQ in Switzerland (33 Training Centers around the world) | <https://unitar.org/>

Module Type	Soft Skills (soft-skill, social awareness and horizontal knowledge development for better employability and overall development of entrepreneurship and professional skills of the talents)
CBRNE Domain(s)	Multi-hazard / Cross-cutting
Duration	1 hour
Delivery Method	Online
Training Frequency	One-time
Target Participants	Industry Professionals, First Responders, "Primary Learners: Government officials, program planners, and M&E specialists at national disaster risk management agencies. Secondary Learners: Disaster Risk Reduction practitioners from international organizations, research institutions, and academia interested in M&E practices for early warning systems.
Study Level Required	None
Language of Instruction	English
Language Proficiency	B2
Location / Venue	online
Course Fee	free
Application Process	Online registration
Certification Offered	Yes
Assessment Methods	Continuous assessment (e.g., participation, assignments), Written exam

Course Overview

The course aims to equip practitioners with the skills to apply the EW4ALL Logic Model and M&E Framework in planning, implementing, and evaluating Multi-Hazard Early Warning Systems (MHEWS).

Specific Learning Objectives

By the end of the course, participants will be able to: Deepen understanding of the global policy context in Monitoring and Evaluation within disaster risk reduction (DRR) and climate adaptation. Apply the Early Warnings for All (EW4All) Logic Model to align project designs with Multi-Hazard Early Warning Systems (MHEWS) indicators. Strengthen understanding of results-based management, particularly on M&E concepts and processes. Develop results-based Monitoring and Evaluation plans and interpret Monitoring and Evaluation results to improve early warning systems. Leverage the EW4All Monitoring and Evaluation annexes and resources to utilize technical tools and guidelines for real-world applications.

Key Competencies Developed

Crisis management, Leadership

Industry & Market Relevance

This course directly responds to a growing global demand for professionals who can monitor and evaluate multi-hazard early warning systems (MHEWS) in the face of escalating climate change, natural disasters and complex hazard environments. Governments, civil-protection agencies, climate-adaptation units and international development organisations now seek practitioners who understand how to apply M&E frameworks to early warning systems. The course therefore aligns with labour-market needs for roles that blend disaster risk reduction (DRR), early warning, results-based management and policy monitoring.

Practical Training Elements

case studies

Course Materials Provided

Online Resources

Expected Career Impact

By completing this course, participants will be well-positioned for career pathways such as early-warning system analysts, monitoring & evaluation officers in disaster-risk reduction agencies, resilience advisors for international development organisations, climate adaptation M&E specialists, and consultants supporting government or NGO programmes. The certification enhances one's profile in roles that require bridging technical M&E expertise, early warning operations and policy/governance functions.

Regional Collaboration

Yes, already in cooperation with UNDRR, WMO, ITU, IFRC

3.8. Local Government Resilience: A Multisectoral Approach to Integrating Public Health and Disaster Risk Management

Providing Organisation: United Nations Institute for Training and Research (UNITAR) | International Organization with HQ in Switzerland (33 Training Centers around the world) | <https://unitar.org/>

Module Type	Soft Skills (soft-skill, social awareness and horizontal knowledge development for better employability and overall development of entrepreneurship and professional skills of the talents)
CBRNE Domain(s)	Multi-hazard / Cross-cutting
Duration	3 weeks
Delivery Method	Online
Training Frequency	One-time
Target Participants	Industry Professionals, First Responders, Government officials Health professionals Disaster Management Professionals Academic and training institutions working on disaster risk reduction
Study Level Required	None
Language of Instruction	English
Language Proficiency	B2
Location / Venue	Online
Course Fee	free
Application Process	Online registration
Certification Offered	Yes
Assessment Methods	Continuous assessment (e.g., participation, assignments), Written exam

Course Overview

In line with the Sendai Framework for Disaster Risk Reduction 2015-2030 and SDGs 11.B and 3.D, this course seeks to contribute to strengthening the capacity of local governments to develop holistic disaster risk reduction policies and plans as a strategy to improve disaster resilience capacity, including threats to public health.

Specific Learning Objectives

By the end of this course, participants will be able to: Module 1: Recognize the Self-Assessment Tool for Disaster Resilience at the Local Level; Identify the Annex - Resilience of Public Health Systems as a complementary tool that addresses disaster-related public health issues. Module 2: Describe the main elements, concepts, principles, components and functions of the WHO Health Emergencies and Disaster Risk Management Framework. Module 3: Explain the structure of the Self-Assessment Tool for Disaster Resilience at the Local Level: Resilience of Public Health Systems – Annex; Use the Self-Assessment Tool for Disaster Resilience at the Local Level: Resilience of Public Health Systems – Annex as a tool that contributes to integrating public health aspects with disaster risk reduction strategies at the local level.

Key Competencies Developed

Crisis management, Leadership

Industry & Market Relevance

This course addresses a growing demand for professionals capable of integrating disaster-risk management with public-health resilience. As cities face increasing climate-related and health emergencies, the ability to apply multisectoral frameworks has become a key competency across local governments, NGOs, and international agencies.

Practical Training Elements

case studies

Expected Career Impact

pursue roles such as resilience officers, emergency-management advisors, public-health planners, or consultants for development agencies and local governments. The UNITAR credential enhances employability in international cooperation, governance, and disaster-risk-reduction sectors.

Regional Collaboration

Yes, already in cooperation with UNDRR, GETI, WHO

3.10. Risk Assessment for National Planning Processes (self-paced)

Providing Organisation: United Nations Institute for Training and Research (UNITAR) | International Organization with HQ in Switzerland (33 Training Centers around the world) | <https://unitar.org/>

Module Type	Soft Skills (soft-skill, social awareness and horizontal knowledge development for better employability and overall development of entrepreneurship and professional skills of the talents)
CBRNE Domain(s)	Multi-hazard / Cross-cutting
Duration	1 hour
Delivery Method	Online
Training Frequency	One-time
Target Participants	Industry Professionals, First Responders, professionals with minimal knowledge on risk analysis and disaster risk reduction who seek to understand the urgency and importance of the benefits of risk analysis in supporting and integrating disaster risk reduction and risk assessment into national planning processes.
Study Level Required	None
Language of Instruction	English
Language Proficiency	B1
Location / Venue	online
Course Fee	free
Application Process	Online registration
Certification Offered	Yes
Assessment Methods	Continuous assessment (e.g., participation, assignments), Written exam

Course Overview

The e-learning course aims to strengthen the capacities of participants in the application of forward-looking and evidence-based analyses in national planning processes.

Specific Learning Objectives

At the end of the course, participants will be able to: Understand the value of risk assessment in national planning processes. Plan for the integration of improved risk assessment in planning documents. Identify and use tools to enrich risk assessment

Key Competencies Developed

Crisis management, Policy awareness, Leadership

Industry & Market Relevance

The course responds to the growing demand for professionals who can integrate risk assessment into national development and planning systems. As governments and international organisations increasingly rely on data-driven approaches to strengthen

disaster preparedness and sustainable development, the ability to interpret, apply, and communicate risk information has become an essential competency in policy, planning, and resilience sectors.

Practical Training Elements

case studies

Expected Career Impact

Participants will be well prepared for roles in national planning departments, risk assessment and policy analysis units, international development agencies, and consultancy firms working on resilience and sustainable governance. The skills acquired—risk communication, data integration, and cross-sector coordination—enhance employability across public administration, disaster management, and development planning domains.

Regional Collaboration

Yes, already in cooperation with UNDRR

3.11. Risk Assessment for National Planning Processes (Facilitated)

Providing Organisation: United Nations Institute for Training and Research (UNITAR) | International Organization with HQ in Switzerland (33 Training Centers around the world) | <https://unitar.org/>

Module Type	Soft Skills (soft-skill, social awareness and horizontal knowledge development for better employability and overall development of entrepreneurship and professional skills of the talents)
CBRNE Domain(s)	Multi-hazard / Cross-cutting
Duration	1 day
Delivery Method	Online
Training Frequency	One-time
Target Participants	UN Resident Coordinators and high-level government officials.
Study Level Required	None
Language of Instruction	English
Language Proficiency	B1
Location / Venue	Online
Course Fee	Free
Application Process	Online registration
Certification Offered	Yes
Assessment Methods	Continuous assessment (e.g., participation, assignments), Written exam

Course Overview

The e-learning course aims to strengthen the capacities of participants in the application of forward-looking and evidence-based analyses in national planning processes.

Specific Learning Objectives

At the end of the course, participants will be able to: Understand the value of risk assessment in national planning processes. Plan for the integration of improved risk assessment in planning documents. Identify and use tools to enrich risk assessment

Key Competencies Developed

Crisis management, Policy awareness, Leadership

Industry & Market Relevance

The course responds to the growing demand for professionals who can integrate risk assessment into national development and planning systems. As governments and international organisations increasingly rely on data-driven approaches to strengthen disaster preparedness and sustainable development, the ability to interpret, apply, and communicate risk information has become an essential competency in policy, planning, and resilience sectors.

Practical Training Elements

This is a facilitated, interactive course. The course contains the following components: Interactive lessons. They introduce you to the conceptual foundations of the different modules in an interactive manner. Further resources. These are key documents related to Disaster Risk Reduction and risk analysis that complement the interactive lessons.

Course Materials Provided

Online Resources

Expected Career Impact

Participants will be well prepared for roles in national planning departments, risk assessment and policy analysis units, international development agencies, and consultancy firms working on resilience and sustainable governance. The skills acquired—risk communication, data integration, and cross-sector coordination—enhance employability across public administration, disaster management, and development planning domains.

Regional Collaboration

Yes, already in cooperation with UNDRR

3.12. Humanitarian Programme Cycle

Providing Organisation: United Nations Institute for Training and Research (UNITAR) | International Organization with HQ in Switzerland (33 Training Centers around the world) | <https://unitar.org/>

Module Type	Soft Skills (soft-skill, social awareness and horizontal knowledge development for better employability and overall development of entrepreneurship and professional skills of the talents)
CBRNE Domain(s)	Multi-hazard / Cross-cutting
Duration	3-4 hours (1 day)
Delivery Method	Online
Training Frequency	One-time
Target Participants	Industry Professionals, First Responders, professionals on risk analysis who seek to understand the application of a forward-looking and evidence-based analysis in the development of Humanitarian Needs Overviews and Humanitarian Needs Response Plans.
Study Level Required	None
Language of Instruction	English
Language Proficiency	B2
Location / Venue	Online
Course Fee	Free
Application Process	Online registration
Certification Offered	Yes
Assessment Methods	Continuous assessment (e.g., participation, assignments), Written exam

Course Overview

This e-learning course aims to strengthen the capacities of participants on the application of a forward-looking and evidence-based analysis in the development of Humanitarian Needs Overviews and Humanitarian Needs Response Plans.

Specific Learning Objectives

At the end of the course, participants will be able to: 1. Explain the importance of the use of a risk-sensitive approach in the formulation of Humanitarian Needs Overview (HNO). 2. Outline the key stages of the Humanitarian Programme Cycle (HPC) and several options for integrating a risk lens and/or DRR actions in each. 3. Develop a multidimensional risk analysis for discussions and validation in a workshop setting. 4. Plan and prepare a risk analysis workshop for HNOs 5. Summarize findings and write up drafts of the HNOs risk chapters.

Key Competencies Developed

This e-learning course aims to strengthen the capacities of participants on the application of a forward-looking and evidence-based analysis in the development of Humanitarian Needs Overviews and Humanitarian Needs Response Plans.

Industry & Market Relevance

This course addresses a pressing need in the humanitarian sector: the ability to conduct risk-sensitive, evidence-based assessments and planning for humanitarian responses. With nearly 300 million people projected to need humanitarian assistance in 2024 due to conflicts, climate emergencies and other crises, professionals who can integrate risk analysis into the humanitarian programme cycle are in increasing demand.

Practical Training Elements

This is a self-paced, interactive course. The course contains the following components: Interactive lessons. They introduce you to the conceptual foundations of the different modules in an interactive manner. Templates and samples. They complement the interactive lessons and provide relevant information to conduct risk analysis workshops: Introductory slide decks for initial engagement Half day agenda for risk analysis workshop Full day agenda for risk analysis workshop Risk analysis matrices (EN, SP, FR) Example of Checklist session slide deck Draft risk chapters RiX Spotlights (Editable versions) Participant's workshop folder

Expected Career Impact

Participants will be well-positioned for roles such as humanitarian planning officers, risk-analysis specialists in humanitarian or development agencies, coordination officers in UN country teams, or consultants supporting HNO/HRP processes. The certificate from UNITAR enhances one's profile in humanitarian and disaster-risk sectors and opens pathways in roles at the nexus of assessment, planning, coordination, and strategic humanitarian response.

Regional Collaboration

Yes, already in cooperation with UNDRR

3.13. Common Country Assessment

Providing Organisation: United Nations Institute for Training and Research (UNITAR) | International Organization with HQ in Switzerland (33 Training Centers around the world) | <https://unitar.org/>

Module Type	Soft Skills (soft-skill, social awareness and horizontal knowledge development for better employability and overall development of entrepreneurship and professional skills of the talents)
CBRNE Domain(s)	Multi-hazard / Cross-cutting
Duration	3-4 hours (1 day)
Delivery Method	Online
Training Frequency	One-time
Target Participants	Industry Professionals, First Responders, professionals on risk analysis who seek to understand the application of a forward-looking and evidence-based analysis in the development of Common Country Assessments.
Study Level Required	None
Language of Instruction	English
Language Proficiency	B1
Location / Venue	Online
Course Fee	Free
Application Process	Online registration
Certification Offered	Yes
Assessment Methods	Continuous assessment (e.g., participation, assignments), Written exam

Course Overview

This e-learning course aims to strengthen the capacities of participants on the application of a forward-looking and evidence-based analysis in the development of Common Country Assessments.

Specific Learning Objectives

At the end of the course, participants will be able to: Explain the importance of the use of a risk-sensitive approach in the formulation of risk county assessments. Describe the importance of risk analysis in United Nations Sustainable Development Cooperation Framework (UNSCDF) processes. Outline the key stages of the UNSCDF guidance and options for integrating a risk lens and/or DRR actions in each. Develop a multidimensional risk analysis for new Common Country Assessment (CCA) and its updates for discussions and validation in a workshop setting. Plan and prepare a risk analysis workshop for CCAs. Summarize findings and write up drafts of the CCAs risk chapters respectively.

Key Competencies Developed

Crisis management, leadership

Industry & Market Relevance

This course addresses a rising need for professionals who can deploy forward-looking, evidence-based analyses at the national level to support development planning frameworks. As governments and UN country teams navigate complex risks (climate, socioeconomic, health, disasters), the ability to conduct a multidimensional risk-informed assessment becomes a key competency, aligning with labour-market demands in development policy, government strategy, analysis roles and international cooperation.

Practical Training Elements

This is a self-paced, interactive course. The course contains the following components: Interactive lessons. They introduce you to the conceptual foundations of the different modules in an interactive manner. Templates and samples. They complement the interactive lessons and provide relevant information to conduct risk analysis workshops: Introductory slide decks for initial engagement Half day agenda for risk analysis workshop Full day agenda for risk analysis workshop Two-day agenda for new CCA Master slide deck for CCA update Risk analysis matrices (EN, SP, FR) Example of Checklist session slide deck Draft risk chapters RiX Spotlights (Editable versions) Participant's workshop folder

Expected Career Impact

Upon completion, participants will be well-placed for roles such as national development policy analyst, UN country-team assessment specialist, risk-informed planning advisor, or consultant in development cooperation. The credential signals proficiency in conducting CCAs and integrating risk-analysis into national policy-making, thereby enhancing career pathways in government strategy units, development banks, UN agencies and international NGOs focused on sustainable development and resilience.

Regional Collaboration

Yes, already in cooperation with UNDRR

3.14. Checklist on Scaling Up Disaster Risk Reduction in Humanitarian Action

Providing Organisation: United Nations Institute for Training and Research (UNITAR) | International Organization with HQ in Switzerland (33 Training Centers around the world) | <https://unitar.org/>

Module Type	Soft Skills (soft-skill, social awareness and horizontal knowledge development for better employability and overall development of entrepreneurship and professional skills of the talents)
CBRNE Domain(s)	Multi-hazard / Cross-cutting
Duration	10 hours (1 month)
Delivery Method	Online
Training Frequency	One-time
Target Participants	Industry Professionals, First Responders, persons, government agencies, and advocates who seek to understand the urgency and importance of strengthening cooperation between humanitarian, development, and peace actors to enable long-term reduction of vulnerabilities.
Study Level Required	None
Language of Instruction	English
Language Proficiency	B1
Location / Venue	Online
Course Fee	Free
Application Process	Online registration
Certification Offered	Yes
Assessment Methods	Continuous assessment (e.g., participation, assignments), Written exam

Course Overview

This training is designed to assist relevant actors in adopting a risk-sensitive approach when preparing Humanitarian Needs Overviews (HNOs) and subsequent Humanitarian Response Plans (HRPs) as part of the Humanitarian Programme Cycle (HPC). It outlines key steps for analyzing potential hazards and their risk levels, determining how humanitarian situations might evolve over a given period of time, and informing contingency planning, preparedness measures, and early actions ahead of possible developments to reduce risk. It also helps to ensure strategies and programs are sufficiently robust to withstand changes in the operational environment.

Specific Learning Objectives

Define the concepts of humanitarian action and disaster risk reduction and explain their importance in reducing the impact of disasters on communities. Analyze the causes and consequences of disasters and assess the factors contributing to vulnerability and resilience. Evaluate the different approaches to disaster risk reduction, including prevention, preparedness, response, and recovery, and identify the best practices and lessons learned. Be familiar with the Checklist on Scaling up DRR in Humanitarian Action:

Supporting Risk-Informed Programming and Humanitarian-Development-Peace Collaboration. Identify the key actors involved in humanitarian action and disaster risk reduction and describe their roles and responsibilities. Understand the urgency and importance of strengthening cooperation between humanitarian, development, and peace actors to enable long-term reduction of vulnerabilities. Apply the principles of humanitarian action and disaster risk reduction to real-life situations using case studies. Design and implement effective disaster risk reduction strategies and programs, considering the needs and perspectives of different stakeholders and the local context.

Key Competencies Developed

risk reduction

Industry & Market Relevance

The course responds to the growing operational demand for humanitarian, development- and peace-sector professionals who can embed disaster risk reduction (DRR) into humanitarian programming, not merely as an add-on but as an integral part of the humanitarian cycle. According to the syllabus, the e-learning helps actors adopt a risk-sensitive approach when preparing humanitarian needs overviews (HNOs) and response plans (HRPs). With escalating complex crises—climate shocks, conflict, pandemics—organizations require staff that move beyond reactive response and instead anticipate risk, vulnerability and systemic threats. This course addresses that job-market shift.

Practical Training Elements

This is a self-paced, interactive course. The modules contain the following components: Interactive Lessons: It is the core mandatory learning component, as they provide the integral content of the modules. Evaluation Quizzes: For each module, an activity will assess your comprehension of the lessons learned in the module.

Expected Career Impact

Upon completion, participants will be better positioned for roles such as humanitarian programme officers, risk-analysis specialists in humanitarian and development agencies, monitoring and evaluation analysts in DRR/humanitarian overlaps, planning officers in UN country teams, or consultants supporting humanitarian-development-peace programmes. The certification enhances one's profile in job markets where integrating DRR into humanitarian action is increasingly expected—thus improving employability and career mobility in resilience-oriented, multi-hazard, cross-sector professional environments.

Regional Collaboration

Yes, already in cooperation with GETI, UNDRR, UNDRR ONEA

3.15. Making Cities Resilient: Developing Local Disaster Risk Reduction and Resilience Strategies

Providing Organisation: United Nations Institute for Training and Research (UNITAR) | International Organization with HQ in Switzerland (33 Training Centers around the world) | <https://unitar.org/>

Module Type	Soft Skills (soft-skill, social awareness and horizontal knowledge development for better employability and overall development of entrepreneurship and professional skills of the talents)
CBRNE Domain(s)	Multi-hazard / Cross-cutting
Duration	13 weeks
Delivery Method	Online
Training Frequency	One-time
Target Participants	Industry Professionals, First Responders, The course is open to city and local government officials, disaster management professionals, and representatives from academic and training institutions working on disaster risk reduction and sustainable development.
Study Level Required	None
Language of Instruction	Spanish
Language Proficiency	B1
Location / Venue	Online
Course Fee	Free
Application Process	Online registration
Certification Offered	Yes
Assessment Methods	Continuous assessment (e.g., participation, assignments), Written exam
Passing Criteria	A certificate of completion will be issued to participants who achieve a minimum total score of 70%. A certificate of participation will be issued to participants who complete all mandatory activities but achieve a final score inferior to 70%.

Course Overview

This e-learning course aims to strengthen the capacities of government officials, especially those at the local level, and disaster management professionals to design and implement plans and programs that reduce disaster risk and enhance resilience.

Specific Learning Objectives

At the end of the course, participants will be able to: Analyse the outcome, goal and implementation of the Sendai Framework for Disaster Risk Reduction 2015-2030 Identify initiatives and best practices on how to integrate disaster risk reduction and climate change adaptation into urban planning Assess the risk management situation in their cities by using the Disaster Resilience Scorecard for Cities Understand how to develop a

safe and resilient country/city action plan Raise awareness about the Making Cities Resilient 2030 (MCR2030) initiative"

Key Competencies Developed

Crisis management, Leadership

Industry & Market Relevance

In an era of rapid urbanisation and escalating disaster risk in cities, this course addresses a major demand: building the capacity of local governments and urban resilience professionals to embed disaster-risk reduction (DRR) and resilience into city planning and development. As cities become both engines of growth and hubs of vulnerability, the skillset this course fosters is increasingly critical in public sector urban-planning bodies, municipal risk teams and development agencies.

Practical Training Elements

This 6-module course includes interactive lessons that introduce the participant to the conceptual foundations of disaster risk reduction and urban resilience. The learning materials are presented through various media, such as text, graphs, images and video material, which contribute to better retention and enhance the learning process. Participants learn through a set of quizzes, which can be completed at the participant's pace. Lessons are accessible (audio and sign language interpretation) to persons with some types of hearing and visual disabilities.

Expected Career Impact

Participants completing this course will be better positioned for roles in urban resilience and local government planning, such as resilience officer for a city, disaster-risk reduction planner in municipal or regional government, consultant for urban development programmes, advisor for UN/INGO urban-resilience projects or programme analyst for climate-resilient infrastructure in cities. The certification signals competence in bridging urban planning, governance and disaster-risk reduction — thus enhancing employability in both the public and development sectors.

Regional Collaboration

Yes, already in cooperation with UNDRR

3.16. Responsible Digital Health Speaker Series #3 - Digital health during public health emergencies

Providing Organisation: United Nations Institute for Training and Research (UNITAR) | International Organization with HQ in Switzerland (33 Training Centers around the world) | <https://unitar.org/>

Module Type	Soft Skills (soft-skill, social awareness and horizontal knowledge development for better employability and overall development of entrepreneurship and professional skills of the talents)
CBRNE Domain(s)	Multi-hazard / Cross-cutting
Duration	1 hour
Delivery Method	Online
Training Frequency	One-time
Target Participants	Bachelor's Students, Master's Students, Postgraduate/PhD Candidates, Recent graduates, Industry Professionals, First Responders
Study Level Required	None
Language of Instruction	English
Language Proficiency	B1
Location / Venue	Online
Course Fee	Free
Application Process	Online registration
Certification Offered	Yes
Assessment Methods	Continuous assessment (e.g., participation, assignments), Written exam

Course Overview

Through a flipped classroom, live simulations and policy-lab format, learners map the emergency digital-health value chain: from needs assessment, rapid regulatory sandboxes, open-source hardware procurement, data-sharing MoUs, to post-crisis de-escalation and sunset clauses. Case studies include WHO's GOARN 2.0, EU Digital COVID Certificate, Rwanda's drone blood supply, and Ukraine's tele-rehabilitation grid. Outputs are packaged into an employer-reviewed portfolio and a transferable "Crisis-Digital Health Playbook".

Specific Learning Objectives

By the end of the module participants will be able to: Conduct a 48-hour stakeholder & risk mapping for digital-health deployment in a declared PHEIC. Draft an emergency GDPR/AI-Act compliant data-sharing agreement and SOP for cross-border interoperability. Design a low-bandwidth, open-source tele-clinical pathway (including HL7-FHIR messaging) that maintains ≥90 % usability in rural 2G contexts. Evaluate algorithmic bias, privacy leakage and cybersecurity threats using WHO's Digital Health Risk Assessment Tool v.3. Pitch a scalable, equity-first business model to a panel of investors, NGOs and ministry procurement officers within 5 minutes."

Key Competencies Developed

leadership

Industry & Market Relevance

The WHO estimates that 70 % of countries still lack emergency digital-health preparedness plans, while the global digital-health response market is projected to reach USD 1.3 trillion by 2030. Employers (UN agencies, Red Cross, Big-Tech, health-security consultancies, start-ups) urgently seek professionals who can translate rapid innovation into regulation-ready, ethically framed solutions. This course directly supplies that hybrid talent pipeline.

Practical Training Elements

Online workshop, case studies

Expected Career Impact

developing leadership skills, crisis management, planning and implementation

Regional Collaboration

Open to regional collaboration with partner organisations.

4. Cross-Cutting Modules

Cross-Cutting Modules integrate elements from more than one module type (Scientific, Practical, and/or Soft Skills). They are presented here as a distinct group to reflect their interdisciplinary character, combining knowledge deepening with operational exposure and transferable skill development.

4.1. Industrial Safety and CBRN

Providing Organisation: Ludovika University of Public Service | Budapest, Hungary | <https://www.uni-nke.hu/>

Module Type	Practical (field work experience, plant visits and practical involvement in operations of end-user organisations) Soft Skills (soft-skill, social awareness and horizontal knowledge development for better employability and overall development of entrepreneurship and professional skills of the talents)
CBRNE Domain(s)	Chemical, Biological, Radiological, Nuclear, Environmental
Duration	5 days
Delivery Method	In-Person
Training Frequency	twice during the project period (Spring and Autumn of 2026)
Target Participants	Bachelor's Students, Master's Students, Postgraduate/PhD Candidates, Recent graduates
Study Level Required	None
Prerequisites	English knowledge level B2
Language of Instruction	English
Language Proficiency	B2
Max Participants/Session	From day 1 to day 5: maximum 20 applicants per session.
Location / Venue	Ludovika University of Public Service, Budapest, Hungary
Course Fee	The University shall not levy any additional participation fee for attendance in the training.
Application Process	Online application form.
Certification Offered	Yes
Certification Details	LUPS issues an official certificate to attest successful participation in the training.
Assessment Methods	Continuous assessment (e.g., participation, assignments), Written exam
Passing Criteria	Participants must achieve a minimum of 12 points (60%) to pass the assessment (written test will contain 20 questions).

Course Overview

Topics of the 5 days training course: Day 1: Safety of hazardous activities. Morning and afternoon lectures and group sessions. Day 2: Safety of dangerous establishments. Morning lectures and group sessions. Afternoon – plant visit to a dangerous establishment (chemical production plant). Day 3: Nuclear accident preparedness. Morning lectures and group sessions- Afternoon – plant visit to a nuclear facility. Day 4: Response to industrial accidents and CBRN system. Morning lectures and group sessions. Afternoon: Disaster Management CBRN equipment presentation. Day 5: Plant visit and practical demonstration in a CBRN safety equipment production plant.

Specific Learning Objectives

The participants become familiar with the basics of preventing man-made disasters, the basics of preventing major industrial accidents involving dangerous substances and critical infrastructure protection, the knowledge of the safe transport and logistics activities related to dangerous substances, activities related to the elimination of industrial emergencies, as well as the issue of nuclear safety and nuclear accident preparedness. Students will also learn about the methods and procedures for the identification of dangerous substances and plants, and the application of the population protection measures related to the subject.

Key Competencies Developed

The course participants will be provided with comprehensive theoretical and practical knowledge of the basic concepts and interpretation of industrial safety, critical infrastructure protection, industrial safety tasks related to dangerous activities and nuclear safety, and procedures and methods of industrial disasters and accidents. The course participants will learn about the methods and procedures of the identification of dangerous substances and application of population protection measures related to the dangerous activities belonging with the tasks of industrial safety.

Industry & Market Relevance

Students of the course can use the acquired knowledge in disaster protection (fire protection and civil protection) activities of state (authority) organizations, business organizations, local governments and non-governmental organizations, which in each case have international and European Union legal regulatory bases.

Practical Training Elements

The practical sessions described in Part III. "Course Overview" primarily focus on plant field visits, technical equipment demonstrations, application of risk assessment software devices and disaster management case study processing.

Trainers & Mentors

The main instructors of the course are employed at the LUPS Faculty of Law Enforcement Institute of Disaster Management who will continuously participate in the professional coordination of the preparation and implementation of the programs: 1. Dr. habil. colonel Lajos Kátai-Urbán PhD, head of Department of Industrial Safety, associate Professor. Field of expertise: Disaster management, industrial safety, major accidents involving dangerous substances, transport of hazardous goods, protection of critical systems and facilities, nuclear emergency preparedness. 2. Dr. Habil. Lt. Colonel József Dobor PhD associate professor, Department of Industrial Safety. Field of expertise: industrial safety; water quality issues (analytical); detection of chemical-biological-radiological-nuclear materials (CBRN), damage elimination; dangerous plant (facility) and dangerous technologies. 3. Dr. major Csaba Almási PhD assistant professor, Department of Industrial Safety. Field of expertise: Disaster management, industrial safety, transport of hazardous goods, protection of critical systems and facilities, response to industrial accidents.

Course Materials Provided

Course Compendium (Handbook) and Book of Presentations.

Expected Career Impact

The course supports participants in later career opportunities obtaining complex emergency response and preparedness knowledge and competences in the field of industrial safety and disaster management.

Regional Collaboration

Open to regional collaboration with partner organisations.

4.2. Sustainable Financing of Institutional Capacity for Chemicals Control

Providing Organisation: United Nations Institute for Training and Research (UNITAR) | International Organization with HQ in Switzerland (33 Training Centers around the world) | <https://unitar.org/>

Module Type	Practical (field work experience, plant visits and practical involvement in operations of end-user organisations) Soft Skills (soft-skill, social awareness and horizontal knowledge development for better employability and overall development of entrepreneurship and professional skills of the talents)
CBRNE Domain(s)	Chemical
Duration	45 minutes (1 Day)
Delivery Method	Online
Training Frequency	One-time
Target Participants	Industry Professionals
Study Level Required	Bachelor's Degree
Language of Instruction	English
Language Proficiency	B1
Location / Venue	Online
Course Fee	Free
Application Process	Online registration
Certification Offered	Yes
Assessment Methods	Continuous assessment (e.g., participation, assignments), Written exam
Passing Criteria	75%

Course Overview

This course is based on the Swedish Chemical Agency's - KemI - publication on "Sustainable financing of institutional capacity for chemicals management", one of a series of documents developed to complement the UNEP Guidance on the Development of Legal and Institutional Infrastructures and Measures for Recovering Costs of National Administration (LIRA Guidance) by giving more detailed guidance in different areas. The aim of this course is to assist governments in developing countries to establish sustainable financing of the institutional capacity linked to the management of chemicals placed on the market.

Specific Learning Objectives

After taking the course, participants will be able to: Explain the term "institutional capacity" in the context of chemicals management Explain and compare different roles and responsibilities of companies, downstream users, and governments, and the implications for financing Describe different methods of financing institutional capacity for chemicals management and analyse their suitability in different contexts Describe the reasons for the need for stable and sufficient financing of institutional capacity

Key Competencies Developed

leadership

Industry & Market Relevance

In a regulatory environment where chemicals placed on the market must be safely managed and national administrations increasingly need stable financing frameworks, this course meets a clear demand. Professionals who can design, evaluate and implement sustainable funding mechanisms for chemicals-control institutions are highly sought after in government agencies, regulatory bodies, compliance teams and international donor or development organisations.

Practical Training Elements

Methodology The course, about 45 minutes to complete, is self-paced and adapted to the schedule of full-time working professionals. Participants are provided with the opportunity to learn through various experiences: absorb (read); interact (activity); and reflect (relate to one's own reality). This includes videos, interactive lessons, reading materials and quizzes. Despite being self-standing, the 4 modules of the course must be completed in order. Each module concludes with a quiz which will assess the knowledge learners will acquire. If learners pass the quiz with a 100% mark, a certificate of completion will be issued to them. Participants will be requested to provide feedback on the course by filling in a feedback form after completing all the modules, accessible anytime.

Expected Career Impact

On completing the course, participants will be equipped for roles such as chemicals-control funding advisor, regulatory agency finance specialist, institutional design consultant in chemicals or environmental regulation, government policy maker in environmental/industrial oversight, and roles within international organisations supporting chemicals and waste management. The certification signals advanced capability in combining regulatory, financial and institutional skills—boosting employability in a niche yet increasingly important field.

Regional Collaboration

Yes, already in cooperation with KEMI

4.3. Enforcement of Chemicals Legislation

Providing Organisation: United Nations Institute for Training and Research (UNITAR) | International Organization with HQ in Switzerland (33 Training Centers around the world) | <https://unitar.org/>

Module Type	Scientific (diversifying and deepening the scientific and CBRNE related professional knowledge of the participants) Practical (field work experience, plant visits and practical involvement in operations of end-user organisations) Soft Skills (soft-skill, social awareness and horizontal knowledge development for better employability and overall development of entrepreneurship and professional skills of the talents)
CBRNE Domain(s)	Chemical
Duration	45 minutes (1 Day)
Delivery Method	Online
Training Frequency	One-time
Target Participants	Industry Professionals
Study Level Required	Industry Experience
Prerequisites	Industry Experience
Language of Instruction	English
Language Proficiency	B1
Location / Venue	Online
Course Fee	Free
Application Process	Online registration
Certification Offered	Yes
Assessment Methods	Continuous assessment (e.g., participation, assignments), Written exam
Passing Criteria	75%

Course Overview

This course is based on the Swedish Chemical Agency - KemI publication on "Enforcement of legislation on chemicals placed on the market" one of a series of guidance documents developed to complement the UNEP Guidance on the Development of Legal and Institutional Infrastructures and Measures for Recovering Costs of National Administration (LIRA Guidance) by giving more detailed guidance in different areas. The aim of the present course is to guide participants through the design and implementation of an efficient system for the enforcement of legislation on chemicals placed on the market, covering substances as such or when used in mixtures or in articles.

Specific Learning Objectives

After taking the course, participants will be able to: Describe the importance of compliance and enforcement of national chemicals laws Explain the importance of inspections to ensure compliance with national chemicals laws Describe the steps in the inspection process Identify the tools available to enforcement authorities

Key Competencies Developed

Leadership

Industry & Market Relevance

This course addresses an important and evolving need: as the global chemicals market grows and regulatory regimes become more complex, there is increasing demand for professionals who understand not just how to draft chemicals legislation, but how to enforce it effectively. The training covers the enforcement of national laws on chemicals placed on the market, including substances used in mixtures or articles. Practitioners in regulatory agencies, trade and industry compliance units, environmental-health institutions and customs officials all benefit from the knowledge of inspection, market surveillance and sanctions frameworks taught in this course.

Practical Training Elements

Methodology The course, about 45 minutes to complete, is self-paced and adapted to the schedule of full-time working professionals. Participants are provided with the opportunity to learn through various experiences: absorb (read); interact (activity); and reflect (relate to one's own reality). This includes videos, interactive lessons, reading materials and quizzes. Despite being self-standing, the 4 modules of the course must be completed in order. Each module concludes with a quiz which will assess the knowledge learners will acquire. If learners pass the quiz with a 100% mark, a certificate of completion will be issued to them. Participants will be requested to provide feedback on the course by filling in a feedback form after completing all the modules, accessible anytime.

Expected Career Impact

Participants completing this course will be well-positioned for roles such as chemicals-control enforcement officer, compliance inspector in regulatory agencies, market surveillance specialist, customs regulatory analyst dealing with chemicals trade, or consultant/advisor in chemicals legislation enforcement. The credential signals competence in bridging technical chemicals knowledge with enforcement and governance processes — strengthening employability in government, regulatory bodies, industry compliance and international development sectors.

Regional Collaboration

Yes, already in cooperation with KEMI

4.4. Risk Reduction of Chemicals

Providing Organisation: United Nations Institute for Training and Research (UNITAR) | International Organization with HQ in Switzerland (33 Training Centers around the world) | <https://unitar.org/>

Module Type	Scientific (diversifying and deepening the scientific and CBRNE related professional knowledge of the participants) Practical (field work experience, plant visits and practical involvement in operations of end-user organisations) Soft Skills (soft-skill, social awareness and horizontal knowledge development for better employability and overall development of entrepreneurship and professional skills of the talents)
CBRNE Domain(s)	Chemical
Duration	45 minutes (1 day)
Delivery Method	Online
Training Frequency	One-time
Target Participants	Industry Professionals
Study Level Required	Industry Experience
Prerequisites	Industry Experience
Language of Instruction	English
Language Proficiency	B1
Location / Venue	Online
Course Fee	Free
Application Process	Online registration
Certification Offered	Yes
Assessment Methods	Continuous assessment (e.g., participation, assignments), Practical skills evaluation / field exercise performance, Written exam, Project or final assignment, Simulation-based assessment
Passing Criteria	75%

Course Overview

This course is based on the Swedish Chemical Agency - KemI publication on "Enforcement of legislation on chemicals placed on the market" one of a series of guidance documents developed to complement the UNEP Guidance on the Development of Legal and Institutional Infrastructures and Measures for Recovering Costs of National Administration (LIRA Guidance) by giving more detailed guidance in different areas. The aim of the present course is to guide participants through the design and implementation of an efficient system for the enforcement of legislation on chemicals placed on the market, covering substances as such or when used in mixtures or in articles.

Specific Learning Objectives

After taking the course, participants will be able to: Explain the key steps in the risk reduction process Describe and compare the different roles and responsibilities of government and industry in the risk reduction process Explain the importance of providing

accurate information regarding hazards and exposure Identify different instruments that can be used as risk reduction measures for different contexts

Key Competencies Developed

Policy awareness

Industry & Market Relevance

In a regulatory environment where chemicals placed on the market must be safely managed and national administrations increasingly need stable financing frameworks, this course meets a clear demand. Professionals who can design, evaluate and implement sustainable funding mechanisms for chemicals-control institutions are highly sought after in government agencies, regulatory bodies, compliance teams and international donor or development organisations.

Practical Training Elements

The course, about 45 minutes to complete, is self-paced and adapted to the schedule of full-time working professionals. Participants are provided with the opportunity to learn through various experiences: absorb (read); interact (activity); and reflect (relate to one's own reality). This includes videos, interactive lessons, reading materials and quizzes. Despite being self-standing, the 4 modules of the course must be completed in order. Each module concludes with a quiz which will assess the knowledge learners will acquire. If learners pass the quiz with a 100% mark, a certificate of completion will be issued to them. Participants will be requested to provide feedback on the course by filling in a feedback form after completing all the modules, accessible anytime.

Expected Career Impact

On completing the course, participants will be equipped for roles such as chemicals-control funding advisor, regulatory agency finance specialist, institutional design consultant in chemicals or environmental regulation, government policy maker in environmental/industrial oversight, and roles within international organisations supporting chemicals and waste management. The certification signals advanced capability in combining regulatory, financial and institutional skills—boosting employability in a niche yet increasingly important field.

Regional Collaboration

Yes, already in cooperation with KEMI

4.5. Classifying and Labelling Chemicals According to the UN GHS (15 September - 28 November 2025)

Providing Organisation: United Nations Institute for Training and Research (UNITAR) | International Organization with HQ in Switzerland (33 Training Centers around the world) | <https://unitar.org/>

Module Type	Scientific (diversifying and deepening the scientific and CBRNE related professional knowledge of the participants) Practical (field work experience, plant visits and practical involvement in operations of end-user organisations)
CBRNE Domain(s)	Chemical
Duration	11 weeks (75 learning hours)
Delivery Method	Online
Training Frequency	Previously held: Classifying and Labelling Chemicals According to the UN GHS (3 March - 16 May 2025)
Target Participants	Bachelor's Students, Master's Students, Postgraduate/PhD Candidates, Recent graduates, Industry Professionals, First Responders, "GHS competent authorities Civil servants in national ministries, provincial departments, and local authorities ("regulators") Environmental and occupational safety managers in the private sector Private sector employees responsible for hazard assessment/classification and preparing labels and safety data sheets Civil society organizations interested in consumer safety, chemicals management, or right-to-know Faculty members, researchers, and students"
Study Level Required	Industry Experience
Prerequisites	As this is an advanced and technical course, participants are expected to have a solid basic knowledge in natural sciences (chemistry, biology) and in mathematics (for rather non-advanced equations), as well as some experience with non-GHS classification systems and/or in hazard/risk assessments.
Language of Instruction	English
Language Proficiency	B1
Location / Venue	Online
Course Fee	\$1,000.00
Application Process	Online registration
Certification Offered	Yes
Assessment Methods	Continuous assessment (e.g., participation, assignments), Written exam
Passing Criteria	75%

Course Overview

The Globally Harmonized System of Classification and Labelling of Chemicals (GHS), adopted by the UN in 2003, standardises chemical hazard classification and communication worldwide, supporting national programmes and international trade. To strengthen knowledge and application of the GHS, UNITAR offers an interactive e-learning course developed with the ILO and OHP and peer-reviewed by experts.

Specific Learning Objectives

The overall goal of the course is to enhance the participants' knowledge and skills for applying the GHS. Participants will learn about: the purpose, scope and application of the GHS; classification of hazardous substances and mixtures; and hazard communication (i.e., labelling and safety data sheets). The course gives participants the opportunity to apply the knowledge to different exercises and tests so they will be prepared to implement the GHS in their own work contexts.

Key Competencies Developed

" After completing the course, participants will be able to: Describe the international policy framework for the GHS and international chemicals management; Apply GHS criteria in classifying physical, health, and environmental hazards; Select appropriate hazard communication elements; Develop classification for safety data sheets and GHS-based labels; Develop effective hazard communication strategies adapted to specific contexts."

Industry & Market Relevance

This course addresses the urgent and evolving need for professionals who can accurately classify chemicals and prepare hazard communication (labels, Safety Data Sheets) according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). As regulatory regimes globally strengthen chemical-safety frameworks, the ability to apply the GHS methodology is highly sought in industry (manufacturing, import/export, supply chains), regulatory agencies, occupational & environmental safety roles, and in countries seeking to align with international standards.

Practical Training Elements

Each module is composed of four elements: lessons, discussion forums, exercises and tests. The lessons are based on the main GHS Document (the "Purple Book") and provide the knowledge to apply the GHS. The discussion forums are supported by tutors and foster interaction and reflection on issues related to the topic. The exercises allow the learners to test their knowledge in order to prepare for the tests and final examination. Learners can also discuss specific elements with the tutors in case of difficulties or questions.

Trainers & Mentors

Moderated by tutors who are internationally recognized experts in GHS, the course elements were designed by professionals with over 40 years' experience in the field.

Expected Career Impact

After completing this course, participants will be well suited for roles such as chemical-classification specialist, label/SDS author, regulatory advisor for chemicals control, compliance manager in manufacturing/import/export, specialist in hazard communication, or consultant supporting national chemical-safety initiatives. The UNITAR certification signals advanced capability in GHS implementation, which enhances their employability in regulatory agencies, industry safety departments, international development and NGO settings where chemical-safety standards are critical.

Regional Collaboration

Open to regional collaboration with partner organisations.

4.6. USEtox - The UNEP/SETAC Scientific Consensus Model

Providing Organisation: United Nations Institute for Training and Research (UNITAR) | International Organization with HQ in Switzerland (33 Training Centers around the world) | <https://unitar.org/>

Module Type	Scientific (diversifying and deepening the scientific and CBRNE related professional knowledge of the participants) Practical (field work experience, plant visits and practical involvement in operations of end-user organisations)
CBRNE Domain(s)	Chemical
Duration	1 Day
Delivery Method	Online
Training Frequency	One-time
Target Participants	Bachelor's Students, Master's Students, Postgraduate/PhD Candidates, Recent graduates, Industry Professionals, First Responders, Government agencies responsible for chemical regulation Researchers and academics in environmental science Industries involved in chemical production and sustainability NGOs and policy advisors working in environmental impact assessment Students in environmental toxicology and life cycle assessment studies
Study Level Required	Industry Experience
Prerequisites	Invitation-only event
Language of Instruction	English
Language Proficiency	B1
Location / Venue	Online
Course Fee	Free
Application Process	Private events (by invitation only) are reserved for a pre-determined group of participants.
Certification Offered	Yes
Assessment Methods	Continuous assessment (e.g., participation, assignments)
Passing Criteria	75%

Course Overview

The USEtox knowledge course aims to provide the learner with an understanding of the USEtox's purpose, methodology, benefits, and applications, supporting capacity-building efforts for chemical management. The course materials include a short video explaining USEtox, its workings, accessibility, and real-world applications, along with five fact sheets covering key aspects such as an overview, benefits, user groups, access, and methodology.

Specific Learning Objectives

USEtox's purpose, methodology, benefits, and applications

Key Competencies Developed

Policy awareness

Industry & Market Relevance

This course addresses the growing need in chemicals management, life-cycle assessment (LCA) and sustainability fields for professionals who can apply rigorous modelling tools to quantify human and ecological toxicity impacts. The USEtox model is widely recognized in industry, regulatory bodies, and sustainability consultancies for assessing chemicals in products, environment, and supply chains. By training practitioners in this consensus model, the course aligns with job-market demands in environmental toxicology, regulatory compliance, product stewardship, and sustainability reporting."

Practical Training Elements

Case studies

Expected Career Impact

Completing the course positions participants for roles such as LCA practitioner, environmental toxicologist, regulatory analyst for chemical and product safety, sustainability consultant, or product-stewardship specialist in industry or public sector. The credential signals capability in a highly technical, globally-endorsed model, enhancing employment and mobility in sectors where chemical risk, sustainability, and life-cycle assessment intersect.

Regional Collaboration

Yes, already in cooperation with UNEP

4.7. A deep dive into the Rotterdam Convention

Providing Organisation: United Nations Institute for Training and Research (UNITAR) | International Organization with HQ in Switzerland (33 Training Centers around the world) | <https://unitar.org/>

Module Type	Practical (field work experience, plant visits and practical involvement in operations of end-user organisations) Soft Skills (soft-skill, social awareness and horizontal knowledge development for better employability and overall development of entrepreneurship and professional skills of the talents)
CBRNE Domain(s)	Chemical
Duration	5 hours
Delivery Method	Online
Training Frequency	One-time
Target Participants	Industry Professionals, National authorities (DNAs), Official Contact Points (OCPs), Private sector entities with a role in the import and/or export of chemicals, Civil society organizations with an interest in the functioning of the Rotterdam Convention, and Individuals with an interest in the international trade of chemicals.
Study Level Required	Industry Experience
Language of Instruction	English
Language Proficiency	B1
Location / Venue	Online
Course Fee	Free
Application Process	Online registration
Certification Offered	Yes
Assessment Methods	Continuous assessment (e.g., participation, assignments)
Passing Criteria	75%

Course Overview

The dramatic growth in chemical production and trade during the past decades has raised concerns about the potential risks posed by hazardous chemicals and pesticides. Countries lacking adequate infrastructure to monitor the import and use of these chemicals are particularly vulnerable. In response to these concerns, the Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade was adopted in 1998 and entered into force in 2004. It aims to promote shared responsibility and cooperative efforts among Parties in the international trade of certain hazardous chemicals in order to protect human health and the environment from potential harm and to contribute to their environmentally sound use. This course provides an in-depth learning experience, systematically covering the mechanisms and provisions of the Convention. It explores in detail key concepts and processes - for example, step by step completion of an import response form – and covers topics such as Annex II criteria, provisions on custom codes and labelling, among others.

Specific Learning Objectives

This self-paced online course on the Rotterdam Convention primarily targets the Rotterdam Convention designated national authorities (DNAs) and Official Contact Points (OCPs). It also offers valuable knowledge for other governmental and non-governmental actors with a role in the implementation of the Convention, from custom authorities to chemical importers.

Key Competencies Developed

Technical skills, policy awareness

Industry & Market Relevance

This course addresses a key and growing global requirement: professionals who understand the regulatory and trade-governance of hazardous chemicals and pesticides under the Rotterdam Convention. With chemical production and international trade expanding rapidly, many countries—especially those with limited regulatory infrastructure—are vulnerable to risks from hazardous imports. The course therefore aligns with job-market needs in governmental regulatory bodies, customs/ border agencies, chemicals management roles, environmental compliance units and trade-policy advisers.

Practical Training Elements

Methodology Completion requirements The successful completion of the course rewards the learner with a certificate. To complete the course, the learner must complete all four modules and pass each associated quiz with a minimum grade of 70% from no more than three attempts. The completion of each module also rewards the learner with a badge.

Expected Career Impact

After completing this course, participants will be better positioned for roles such as national chemical-control authority staff, designated national authority (DNA) officers for the Rotterdam Convention, customs and trade compliance specialists in chemicals, regulatory affairs managers in chemical industry firms, policy advisors on hazardous substances, or consultants in international chemicals-management and environmental-governance initiatives. The certificate signals proficiency in handling trade/regulatory processes for hazardous chemicals and enhances career mobility across national, regional and international frameworks.

Regional Collaboration

Yes, already in cooperation with Secretariat of the Basel, Rotterdam and Stockholm Conventions UNEP (502) FAO (4231)

4.8. Green and Sustainable Chemistry

Providing Organisation: United Nations Institute for Training and Research (UNITAR) | International Organization with HQ in Switzerland (33 Training Centers around the world) | <https://unitar.org/>

Module Type	Scientific (diversifying and deepening the scientific and CBRNE related professional knowledge of the participants) Practical (field work experience, plant visits and practical involvement in operations of end-user organisations)
CBRNE Domain(s)	Chemical
Duration	1 Day
Delivery Method	Online
Training Frequency	One-time
Target Participants	This course is targeted at national chemicals officials and education institutions but does not require specialised chemical knowledge and is intended to be of interest to a broad range of sectors and stakeholders along the chemical value chain from chemicals design, production and use to final disposal.
Study Level Required	Industry Experience
Prerequisites	Industry Experience
Language of Instruction	English
Language Proficiency	B1
Location / Venue	Online
Course Fee	Free
Application Process	Online registration
Certification Offered	Yes
Assessment Methods	Continuous assessment (e.g., participation, assignments)
Passing Criteria	70%

Course Overview

"The information found within this e-course builds on the Green and Sustainable Chemistry Framework Manual which was developed in consultation with experts from industry, academia, government, international organizations and NGO's. The overall aim of the e-course is to unveil the full potential of chemistry such that it is compatible with, and supports, the implementation of the 2030 Agenda for Sustainable Development. It aims to teach learners "what" Green and Sustainable Chemistry is, "why" it is needed, "what" it aims to achieve and "how" stakeholders can achieve a transformation towards its underlying vision."

Specific Learning Objectives

After taking the course, participants will be able to: Understand what Green and Sustainable Chemistry is. Describe the 10 Objectives and Guiding Considerations for Green and Sustainable Chemistry. Understand the roles different stakeholders can play to advance Green and Sustainable Chemistry. Discuss how educators can advance Green and Sustainable Chemistry. Understand the links between chemistry and the 2030 Agenda for

Sustainable Development and how the 10 Objectives can advance circularity. Explain the potential of Green and Sustainable Chemistry to drive sustainability in different sectors of the economy. Describe key policies, tools and instruments that can be used to foster an enabling environment for Green and Sustainable Chemistry. Understand the importance of metrics and reporting for monitoring and measuring impact."

Key Competencies Developed

Policy awareness

Industry & Market Relevance

The course meets the escalating global demand for professionals who understand how chemistry can be designed and applied in a way that aligns with sustainability goals. As industries increasingly move toward circular economy models and sustainable production, the ability to apply the principles of green and sustainable chemistry becomes a key competency for roles in research, manufacturing, regulatory compliance and supply-chain management. According to the course description, learners will engage with key guiding objectives and tools that link chemistry to the Sustainable Development Goals (SDGs).

Practical Training Elements

The course, about 2 hours to complete, is self-paced and adapted to the schedule of full-time working professionals. Participants are provided with the opportunity to learn through various experiences: absorb (read); interact (activity); and reflect (relate to one's own reality). This includes videos, interactive lessons, reading materials and quizzes. The 4 modules of the course are self-standing and can be completed in any order. However, it is recommended that learners complete the modules in a sequential manner. All lessons conclude with a quiz to reaffirm the knowledge learners will acquire. Participants will be requested to provide feedback on the course by filling in a feedback form after completing all the modules, accessible anytime.

Expected Career Impact

Upon completion, participants will be better positioned for careers such as sustainability chemists, green-process designers, regulatory or compliance officers in chemicals/industry sectors, educators in green chemistry, or consultants supporting product-stewardship and circular-economy initiatives. The certification signals a readiness to engage in roles where chemistry meets sustainability, policy and cross-sector innovation.

Regional Collaboration

Yes, already in cooperation with UNEP

4.9. The Basel, Rotterdam and Stockholm Conventions and their linkages with the Sustainable Development Goals

Providing Organisation: United Nations Institute for Training and Research (UNITAR) | International Organization with HQ in Switzerland (33 Training Centers around the world) | <https://unitar.org/>

Module Type	Scientific (diversifying and deepening the scientific and CBRNE related professional knowledge of the participants) Practical (field work experience, plant visits and practical involvement in operations of end-user organisations) Soft Skills (soft-skill, social awareness and horizontal knowledge development for better employability and overall development of entrepreneurship and professional skills of the talents)
CBRNE Domain(s)	Chemical
Duration	6 months
Delivery Method	Online
Training Frequency	One-time
Target Participants	Bachelor's Students, Master's Students, Postgraduate/PhD Candidates, Recent graduates, Industry Professionals, First Responders, "This e-learning course is targeted at government officials, e.g., national focal points, who have a role in ensuring that the Basel, Rotterdam and Stockholm Conventions are implemented to the greatest extent possible. · Government officials who are not already specialists on the subject in question · NGOs · Educators · Students · Other interested stakeholders "
Study Level Required	None
Language of Instruction	English
Language Proficiency	B1
Location / Venue	Online
Course Fee	Free
Application Process	Online registration
Certification Offered	Yes
Assessment Methods	Continuous assessment (e.g., participation, assignments)

Course Overview

This e-course is based on available information on the Basel, Rotterdam and Stockholm Conventions and on the 2030 Agenda for Sustainable Development. It draws on the experiences and expertise of Secretariat staff from each of the Conventions, and on sources of information publicly available. The overall aim of the course is to guide Parties to the conventions, and those interested in these topics, on the linkages between the three conventions and their contributions to the Sustainable Development Goals.

Specific Learning Objectives

Describe the importance and benefits that implementing the Conventions brings for protection of human health and the environment. Understand the Basel, Rotterdam and Stockholm Conventions. Describe who the key actors are in each Convention and their roles. Discuss the key legal provisions under each Convention that are related to the Sustainable Development Goals. Explain why collecting and submitting specific information by Parties to each of the three Conventions is critical to achieving the Sustainable Development Goals.

Key Competencies Developed

Policy awareness

Industry & Market Relevance

This course addresses the rising demand for professionals who understand how major multilateral treaties on chemicals and waste (the Basel Convention, Rotterdam Convention and Stockholm Convention) interface with sustainable development priorities. In a world where regulatory compliance, safe chemicals management, transboundary waste flows and sustainable production are increasingly central, the ability to navigate these conventions, and align action with the 2030 Agenda and the Sustainable Development Goals (SDGs), has strong relevance in government, regulatory, industry compliance, international development and environmental-governance roles.

Practical Training Elements

The course, which contains 4 modules, is self-paced and adapted to the schedule of full-time working professionals. We advise short or medium sessions from 10 to 60 minutes per day, depending on the section studied. Participants are provided with the opportunity to learn through various experiences: absorb (read); interact (activity); and reflect (relate to one's own reality). This includes videos, reading materials and quizzes. The 4 modules of the course are self-standing and can be completed in any order. However, it is recommended that learners complete the modules in a sequential manner.

Expected Career Impact

Upon completion, participants will be well-positioned for roles such as national focal-points or regulatory officers for the Basel, Rotterdam or Stockholm Conventions, chemicals & waste policy advisors, international development consultants focusing on chemicals/waste and SDGs, capacity-building specialists in environmental governance, or compliance managers in industry with cross-border trade of hazardous chemicals/waste. The credential signals an advanced grasp of treaty-based frameworks, SDG integration and cross-sector implementation — enhancing employability in governmental, NGO, UN, and private-sector roles concerned with chemicals, waste and sustainable development.

Regional Collaboration

Yes, already in cooperation with Secretariat of the Basel, Rotterdam and Stockholm

4.10. Strengthening Civilian Capacities to Protect Civilians: Unarmed Civilian Protection - PTP.2025.14

Providing Organisation: United Nations Institute for Training and Research (UNITAR) | International Organization with HQ in Switzerland (33 Training Centers around the world) | <https://unitar.org/>

Module Type	Practical (field work experience, plant visits and practical involvement in operations of end-user organisations) Soft Skills (soft-skill, social awareness and horizontal knowledge development for better employability and overall development of entrepreneurship and professional skills of the talents)
CBRNE Domain(s)	Explosives
Duration	1 Day
Delivery Method	Online
Training Frequency	One-time
Target Participants	Industry Professionals, First Responders
Study Level Required	None
Prerequisites	Having a good command of the English language (reading and writing); Being computer literate.
Language of Instruction	English
Language Proficiency	B1
Location / Venue	Online
Course Fee	Free
Application Process	Online registration
Certification Offered	Yes
Assessment Methods	Continuous assessment (e.g., participation, assignments)

Course Overview

According to the World Bank, more than 1.5 billion people live in countries affected by repeated violence. In absolute terms, the need for direct physical protection of civilians against imminent violence has never been greater than it is today. Local and international actors are struggling to protect all those under direct threat, wherever conflict occurs. A small number of civil society and humanitarian organizations have begun providing direct physical protection for civilians through a method called Unarmed Civilian Protection (UCP), which promotes nonviolent means for a community to protect itself from violence.

Specific Learning Objectives

The aim of this advocacy presentation is to raise awareness for and increase understanding of UCP. It starts by explaining the need for UCP, followed by an introduction to its key principles and methods, and finally describing how it fits into wider protection efforts and global discourses.

Key Competencies Developed

Differentiate UCP from conventional peacekeeping; Place UCP in the history of nonviolence, protection and conventional peacekeeping; Define UCP and relevant terms linked to it; Describe the actors within UCP; and Locate UCP within key global discourses

Industry & Market Relevance

This course addresses the growing global need for professionals who understand non-violent civilian protection in conflict and crisis settings. As over 1.5 billion people live in countries affected by repeated violence, there is strong demand for practitioners who can engage with methods of protecting civilians without armed force. Roles in humanitarian agencies, civil society organisations, peace-keeping/support missions, and donor or policy institutions increasingly value knowledge of unarmed civilian protection (UCP) methods and frameworks.

Practical Training Elements

This advocacy course is a self-guided, self-paced, web-based course that is on-going and can be accessed at any time. The material is presented in text format with visual aids and web-based reference resources. Regular activities allow the participant to test their understanding of and reinforce the message of the course.

Expected Career Impact

Completing this course positions participants for roles such as humanitarian protection officers, civilian-protection advisors, peacebuilding practitioners, policy analysts focusing on civilian safety, or civil society advocates for non-violent protection. The understanding of UCP enhances one's profile in organisations working in conflict or post-conflict environments, and supports career pathways where civilian safety, resilience and non-violent protection are central.

4.11. Hiroshima Training Programme on Nuclear Disarmament and Non-Proliferation 2025 Cycle

Providing Organisation: United Nations Institute for Training and Research (UNITAR) | International Organization with HQ in Switzerland (33 Training Centers around the world | <https://unitar.org/>)

Module Type	Scientific (diversifying and deepening the scientific and CBRNE related professional knowledge of the participants) Practical (field work experience, plant visits and practical involvement in operations of end-user organisations) Soft Skills (soft-skill, social awareness and horizontal knowledge development for better employability and overall development of entrepreneurship and professional skills of the talents)
CBRNE Domain(s)	Nuclear
Duration	6 days
Delivery Method	Online
Training Frequency	Annually
Target Participants	Industry Professionals, First Responders, industry prof government officials from ministries of foreign affairs and defence in Asia and Pacific countries
Study Level Required	Industry Experience
Prerequisites	Private registration – by invitation
Language of Instruction	English
Language Proficiency	B1
Location / Venue	Online
Course Fee	TBC
Application Process	Private registration-by invitation
Certification Offered	Yes
Assessment Methods	Continuous assessment (e.g., participation, assignments)
Passing Criteria	70%

Course Overview

The year 2025 marks 80 years since the Hiroshima and Nagasaki atomic bombings – the first and only use of nuclear weapons in the world – and the 50th anniversary of the Treaty on the Non-Proliferation of Nuclear Weapons (NPT). In 2021, the Treaty on the Prohibition of Nuclear Weapons entered into force, cementing a categorical ban on nuclear weapons. Based in the symbolic city of Hiroshima, UNITAR Division for Prosperity has an inherent interest in nuclear disarmament and non-proliferation. Since 2015, we have been training government officials from Asian countries who are on the front-line of nuclear disarmament negotiations. The UNITAR programme gives participants a deep understanding of the latest nuclear arms control debate. Participants learn about the protocols and procedures of disarmament and non-proliferation conferences, such as the NPT Review Conference, and build communication and negotiation skills. "

Specific Learning Objectives

The overall programme objective was for the participants to improve their diplomacy on nuclear disarmament and non-proliferation through acquired knowledge and skills and enhance the intra-regional network of government officials during the training programme. To achieve this objective, the programme set the following three outputs: · Strengthened knowledge of the current state of the global nuclear debate · Acquired negotiation skills for advancing nuclear disarmament and non-proliferation in international forums · Enhanced understanding of the humanitarian impacts of nuclear weapons through the Hiroshima experience

Key Competencies Developed

Current state of the global nuclear debate, including key challenges and opportunities, outline UN NACD Functions, New Agenda for Peace, and Summit for the Future, outline UNRCPD initiatives in Asian countries and describe new technologies and their impacts on nuclear disarmament

Industry & Market Relevance

This training addresses a critical global need for professionals who understand nuclear disarmament, non-proliferation, and negotiation processes within the broader context of international security. As geostrategic tensions and nuclear risks remain high, governments, diplomatic services, international organisations and think-tanks increasingly seek personnel capable of navigating disarmament frameworks, negotiation forums (such as the Treaty on the Non-Proliferation of Nuclear Weapons) and regional security dynamics. The programme helps fill this demand by equipping participants with insight into the current nuclear debate and the skills to engage effectively.

Practical Training Elements

Case Studies

Trainers & Mentors

Training Experts Tim Caughley: The Power of Training Diplomats on Nuclear Disarmament from Hiroshima Yuriy Kryvonos: Teaching Asian Diplomats to Promote Nuclear Disarmament and Non-Proliferation Tariq Rauf: Spotlight on Our Experts – Filling a Critical Gap for Countries in Asia

Expected Career Impact

Participants who complete this training will be well-positioned for roles such as disarmament and non-proliferation officers in foreign ministries, policy analysts in international organisations, negotiation advisors in arms-control agencies, regional security specialists, or consultants focusing on nuclear arms-control and peacebuilding. The Hiroshima credential signals not only subject-matter expertise but also hands-on negotiation and diplomatic capacity — enhancing employability and mobility in the fields of international security, disarmament policy and multilateral diplomacy.

Regional Collaboration

Open to regional collaboration with partner organisations.

4.12. Training in BioThreat Preparedness and Response – Basic Level

Providing Organisation: Vinca Institute for Nuclear Sciences | Serbia | <https://www.vin.bg.ac.rs/>

Module Type	Scientific (diversifying and deepening the scientific and CBRNE related professional knowledge of the participants) Practical (field work experience, plant visits and practical involvement in operations of end-user organisations)
CBRNE Domain(s)	Biological
Duration	3-5 days
Delivery Method	In-Person
Training Frequency	On-demand
Target Participants	First Responders, Specialized Units: CBRN Teams, Police SWAT/Tactical Teams, Military EOD/CBRN Operators * Conventional First Responders: Law Enforcement Officers, Firefighters, Emergency Medical Services (EMS) Personnel * Critical Infrastructure Protection: Security forces for airports, hospitals, post offices, schools, and other sensitive sites
Study Level Required	None
Prerequisites	No strict prerequisites are required; participants should ideally possess some practical experience in emergency response and a basic understanding of nature sciences
Language of Instruction	English
Language Proficiency	B1
Application Process	Directly through UCPS Center of Excellence or via their national authority
Certification Offered	Yes
Assessment Methods	Continuous assessment (e.g., participation, assignments), Practical skills evaluation / field exercise performance, Written exam, Simulation-based assessment
Passing Criteria	70%

Course Overview

Training provides essential knowledge and practical skills to prepare for, respond to, and manage biological threats incidents. The training combines classroom instructions, laboratory sessions, hands-on/drills of acquired classroom instructions, table top and field exercises for a comprehensive learning experience

Specific Learning Objectives

Upon completion, participants will be able to:

- Recognize key indicators of a biological incident based on symptoms, environment, and scene observations.
- Establish scene/site-specific plan – define the main elements of a response plan (safety measures-zoning, protective equipment, decontamination, reporting, securing the area).
- Apply basic scene control within designated zones and perform sampling of suspected material under supervision.
- Identify the presence of a biological agent – observe and interpret results from

field detection techniques. • Perform basic scene/site closure procedures or key steps needed to safely close a site after response actions (safety measures- protective equipment, decontamination, reporting, securing the area).

Key Competencies Developed

• Strategic Thinking: Understand basic incident management, including command structure, risk awareness, and simple planning. • Tactical Skills: Use standard and improvised PPE, practice donning/doffing, move safely in contaminated areas, and setup and operate in detection corridor. • Technical Skills: Perform sterile sampling, package and tag evidence, use basic detection tests, and operate a basic decontamination setup. • Interpersonal Skills: Communicate effectively within the team, coordinate roles, and mutual support under stress.

Industry & Market Relevance

In an era of increased global instability and advances in biotechnology, the risk of biological agent misuse is a tangible reality. This course directly contributes to public safety and national response capabilities against this threat spectrum. It trains the "first line of defense" – those first on scene – to recognize and respond to this specific low-frequency, high-impact threat in a way that mitigates their risk and increases the chances of a successful resolution and evidence collection.

Practical Training Elements

* Use of Simulants: The safe use of simulated biological agents * Table-Top Exercises (TTX): Scenarios walkthroughs in the classroom to practice risk assessment, decision-making and command coordination * Laboratory Exercises: Hands-on work with sampling and basic detection equipment in controlled conditions * Personal Protective Equipment (PPE) Drills: Repeated, supervised donning and doffing procedures for basic levels of protection * Decontamination Corridor Setup & Operation: Practical training in establishing and managing decontamination lines under realistic conditions * Final Field Based Scenarios: Simulation of real bioterror response, integrating sampling, decontamination, detection, and coordination

Expected Career Impact

Completion supports career advancement across security, emergency, and public health institutions requiring bioterror preparedness expertise

4.13. CWA Awareness Training

Providing Organisation: Core CBRN International B.V. | the Netherlands | <https://corecbrn.com/>

Module Type	Practical (field work experience, plant visits and practical involvement in operations of end-user organisations) Soft Skills (soft-skill, social awareness and horizontal knowledge development for better employability and overall development of entrepreneurship and professional skills of the talents)
CBRNE Domain(s)	Chemical
Duration	2 days (12 hours)
Delivery Method	In-Person
Training Frequency	On-demand
Target Participants	Bachelor's Students, Master's Students, Postgraduate/PhD Candidates, Recent graduates, Industry Professionals, First Responders
Study Level Required	None
Prerequisites	English knowledge level B2
Language of Instruction	English
Language Proficiency	B2
Max Participants/Session	8-10
Location / Venue	The HiddingenTestCenter, Germany.
Application Process	Upon demand
Certification Offered	Yes
Certification Details	Certificate of Completion issued by the Core CBRN International. The certificate confirms the participant's theoretical competence in CWA properties, personal protective levels, medical countermeasures and decontamination.
Assessment Methods	Written exam
Passing Criteria	Participants must achieve minimum 16 points to pass the assessment.

Course Overview

This is a classroom based training that provides understanding of chemical warfare agents properties and behaviour in the field, personal protection levels, medical countermeasures and decontamination methods.

Specific Learning Objectives

At the end of this training, participants will have a clear understanding of: - chemical warfare agents properties and behaviour in the field - personal protection levels - medical countermeasures - decontamination methods

Key Competencies Developed

Participants will acquire essential knowledge in CWA awareness.

Industry & Market Relevance

Participants will strengthen their preparedness for emergency response roles and enhance their employability in positions that require specialized CWA expertise.

Practical Training Elements

This theoretical training is delivered in a Schedule 1 facility, complemented by a guided tour for all participants.

Trainers & Mentors

Our instructors bring extensive field experience gained through their work with the UN Mission to Investigate Allegations of the Use of Chemical Weapons in the Syrian Arab Republic (August 2013), the OPCW-UN Joint Mission in Syria, the OPCW-UN Joint Investigative Mechanism, Ebola and COVID-19 response efforts, and support provided during the Navalny investigation.

Expected Career Impact

This course provides a strong theoretical foundation in Chemical Warfare Agents, enabling participants to further develop their knowledge and advance their professional expertise.

Regional Collaboration

yes

4.14. CBRNE Guardians Multidisciplinary Training Programme for Tomorrow's Crisis Responders ERA Talents

Providing Organisation: ROHEALTH – The Health and Bioeconomy Cluster | ROMANIA, Bucharest | <https://rohealth.ro/en/en-about-us/en-about-us-working-groups>

Module Type	Scientific (diversifying and deepening the scientific and CBRNE related professional knowledge of the participants) Practical (field work experience, plant visits and practical involvement in operations of end-user organisations)
CBRNE Domain(s)	Chemical, Biological, Radiological, Nuclear, Explosives, Multi-hazard / Cross-cutting
Duration	8 days
Delivery Method	In-Person
Training Frequency	On-demand
Target Participants	Bachelor's Students, Master's Students, Postgraduate/PhD Candidates, Recent graduates, Industry Professionals
Study Level Required	None
Prerequisites	Basic familiarity with CBRNE terminology, safety awareness, and ability to participate in an intensive in-person multidisciplinary programme conducted in English. For certain sessions involving demonstrations or operational environments, participants must follow host-specific safety and security instructions. No advanced specialization in all CBRNE domains is required, but prior exposure to science, engineering, health, emergency management, security, or related fields is recommended
Language of Instruction	English
Language Proficiency	B2
Max Participants/Session	20
Location / Venue	Bucharest, Romania, with sessions hosted at multiple partner sites
Course Fee	No fee for participants attending the programme within the SPARKUP project framework. For delivery outside the SPARKUP-funded implementation, an on-demand fee may apply.
Application Process	For the SPARKUP project implementation, participants will be selected through the internal selection and allocation procedures established within the project. For on-demand delivery outside the SPARKUP framework, the application and registration process will be determined depending on the target group, hosting arrangement, and agreed delivery format.
Certification Offered	No

Assessment Methods	Continuous assessment (e.g., participation, assignments), Practical skills evaluation / field exercise performance, Written exam
Passing Criteria	100% attendance and minimum 75% in the final written assessment

Course Overview

The course is designed to provide participants with a broad, multidisciplinary, and practice-oriented understanding of the full CBRNE spectrum by combining scientific content, applied technologies, operational exposure, and interaction with experts from different institutional backgrounds. The programme covers chemical, biological, radiological, nuclear, and explosives-related topics through a structured sequence of thematic sessions hosted by Romanian organizations active in research, emergency response, public health, advanced technologies, and specialized training environments. Participants are introduced to chemical threats, chemical agents, legal and regulatory frameworks, environmental and safety aspects of risk management, advanced chemical detection methods, laboratory analysis, decontamination approaches, and innovation in applied chemistry. The course also includes biological hazards, transmission mechanisms, public-health response, epidemiological surveillance, crisis management, and operational emergency-response procedures.

Specific Learning Objectives

Participants will develop a structured understanding of the main CBRNE threat categories and of the scientific, technical, and operational principles relevant to chemical, biological, radiological, nuclear, and explosives-related risks. The course aims to strengthen participants' knowledge of chemical agents, legal and regulatory frameworks, chemical detection and decontamination methods, biological threats and transmission mechanisms, public-health and emergency-response coordination, radiation protection and detection technologies, nuclear-related support applications, and explosives safety and investigation principles. The programme also aims to familiarize participants with practical tools and operational environments used in CBRNE preparedness and response, including laboratory methods, field-based procedures, robotics for hazardous environments, telemedicine-related applications, protective equipment, decontamination practices, and controlled testing settings. In addition, participants will improve their understanding of multi-agency cooperation, interoperability, and the role of cross-sector coordination in the integrated management of complex crisis and disaster scenarios.

Key Competencies Developed

The course develops a broad set of technical, operational, and cross-sectoral competencies relevant to the CBRNE field. These include foundational technical knowledge across chemical, biological, radiological, nuclear, and explosives-related risks; awareness of detection, monitoring, decontamination, and safety procedures; and understanding of the technologies used in hazardous environments, including robotics, radiological detection systems, telemedicine applications, and specialized response-support tools. It also strengthens competencies related to laboratory and field-based observation, emergency and crisis-response understanding, public-health coordination, risk recognition, safety culture, and interpretation of real-life operational practices.

Industry & Market Relevance

The course is closely aligned with current labour market needs by addressing the growing demand for professionals skilled in CBRNE risk assessment, emergency response, public health coordination, and security management. It provides multidisciplinary knowledge and practical exposure to real operational environments, reflecting the competencies required by employers across research institutions, civil protection agencies, healthcare systems, and security organizations. By strengthening both technical and cross-sectoral skills, the programme enhances participants' employability and readiness to operate in complex, high-risk scenarios.

Practical Training Elements

The programme includes laboratory visits, technology demonstrations, emergency-response simulations, case studies, protective gear and decontamination demonstrations, field visits to specialized facilities, and practical observation of controlled explosive testing.

Trainers & Mentors

· Nicolae Mărunțelu – CBRNE training coordination and programme facilitation · Trainers and researchers from the Institute of Solid Mechanics of the Romanian Academy – robotics and emergency technologies for CBRNE environments · Trainers and researchers from ICECHIM – National Institute for Research & Development in Chemistry and Petrochemistry – chemical detection, laboratory methods, decontamination, and applied chemistry · Trainers and specialists from the Inspectorate for Emergency Situations Bucharest-Ilfov (ISU-BIF) – emergency response and operational coordination · Trainers and experts from the Association “Societatea de Salvare Bucuresti” – biological response, public health coordination, and crisis management · Trainers and researchers from the National Institute of Materials Physics (NIMP) – radiological detection, radiation protection, and advanced materials · Trainers and researchers from the National Institute for Laser, Plasma and Radiation Physics (INFLPR) – nuclear-related technologies, telemedicine, and response-support applications · Trainers and experts from the Military Technical Academy “Ferdinand I” – energetic materials, explosives safety, and practical demonstrations

Course Materials Provided

PowerPoint presentations and selected online resources will be provided to support the training content and participants' follow-up learning.

Expected Career Impact

This training supports career pathways in CBRNE safety and security, emergency response, civil protection, public health, applied research, and technology-based risk management. It is especially relevant for participants aiming to work in cross-sector roles that connect scientific knowledge, operational practice, and institutional coordination.

Regional Collaboration

ROHEALTH is open to collaboration with other regional organizations for joint delivery, adaptation of thematic modules, and integration into wider SPARKUP mobility and training activities.

Consortium partners



Coordinator:

Vinca Institute for Nuclear Sciences
www.vin.bg.ac.rs/en/
Serbia



Ludovika-University of Public Services
<https://en.uni-nke.hu/>
Hungary



University of Criminal Investigation and Police Studies
www.kpu.edu.rs/en/
Serbia



University of Rome "Tor Vergata"
<https://web.uniroma2.it/en>
Italy



Core CBRN
<https://corecbrn.com/>
Netherlands



Privanova
www.privanova.com
France



EXON Engineering
<https://ex-on.hu/>
Hungary



ISEMI
www.isemi.sk/en_GB/
Slovakia



ROHEALTH
<https://rohealth.ro/en>
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UNITAR
<https://unitar.org/>



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