

PROPOSAL OF AN INNOVATIVE INTERNATIONAL TRAINING CURRICULUM FOR ADVISORS IN EMERGENCIES AND CBRNE EVENTS

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«Protection Against CBRNe events»*

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AGENDA

- Introduction
- Aim of the project
- Structure
- Target Audience
- Modules
- Business Plan
- Conclusions

INTRODUCTION

Complex emergencies are usually associated with

- Extensive destruction of property
- massive displacements of people
- Increase in morbidity
- Increase in mortality
- Potential disease outbreaks
- Toxic Industrial Materials (TIM) release



Emergencies and disasters can be associated with CBRNe events and it is extremely difficult to identify a complete list of all possible scenarios.

A complete knowledge of all aspects of emergencies is fundamental. Under the meaning of emergencies and CBRNe events management there are several possible effects and consequences that decision makers very often do not know.

INTRODUCTION

Emergency preparedness requires attention not just for specific threats but **any type of hazard have to be considered**. An all hazard approach, that includes all types of threat irrespective of its origination, is the most effective.

Wrong decisions can have bad consequences in the effectiveness of field relief operations.

Extreme events require high-qualified experts to intervene quickly, directly as first responders, or indirectly as advisors to decision makers.

AIM OF THE PROJECT

This proposal is aimed at creating an international training curriculum for the effective management of all kinds of emergencies (included CBRNe events).

In particular, the aim is **to prepare Subject Matter Experts** (SMEs) at **national and international level** as **advisors** that could support **decision makers** in their strategic decisions increasing the effectiveness **for a prompt response to emergencies and disasters**.

STRUCTURE

The curriculum is structured in different modules aimed to specific aspects of the management of emergencies.

The modules should be supported (hosted in different EU locations) by International Organizations that are responsible and officially recognized as key players and reference points for the management of specific aspects related to the emergencies:

- **United Nations (UN) and UN agencies (UNOCHA/WHO/UNICRI/BWC-ISU)**
- **European Union (EU) and EU agencies (ERCC, ECDC)**
- **Organization for Security and Cooperation in Europe (OSCE)**
- **North Atlantic Treaty Organization (NATO) and NATO bodies**
- **OPCW/IAEA/EURATOM/(E)NEA/INTERPOL (...)**

STRUCTURE

The modules are developed taking into account a **different Depth of Knowledge (DOK)** for a **progression in the learning.**

- **Basic initial conceptual knowledge (Mod.1)**
- **Intermediate level of comprehension (Mod.2-7)**
- **Advanced skills and competences knowledge level to solve complex problems (Mod.8)**

TARGET AUDIENCE (TA)

The TA for this curriculum is **Emergencies Management professionals** including

- **National Civil Protection Department**
- **Fire Fighting Department,**
- **Ministry of Foreign Affairs,**
- **Ministry of Defense and subordinate military headquarters, units or agencies,**
- **National and International Civil Organizations,**
- **Research Institutes**
- **Private Companies**

MODULES

Every module has a **standard structure** characterized by

- the **depth of knowledge**
- the **aim** of the module
- characteristics of the **target audience**
- student **pre-requisites and assessment**
- the **methodology**
- the **learning objectives and main teaching points**

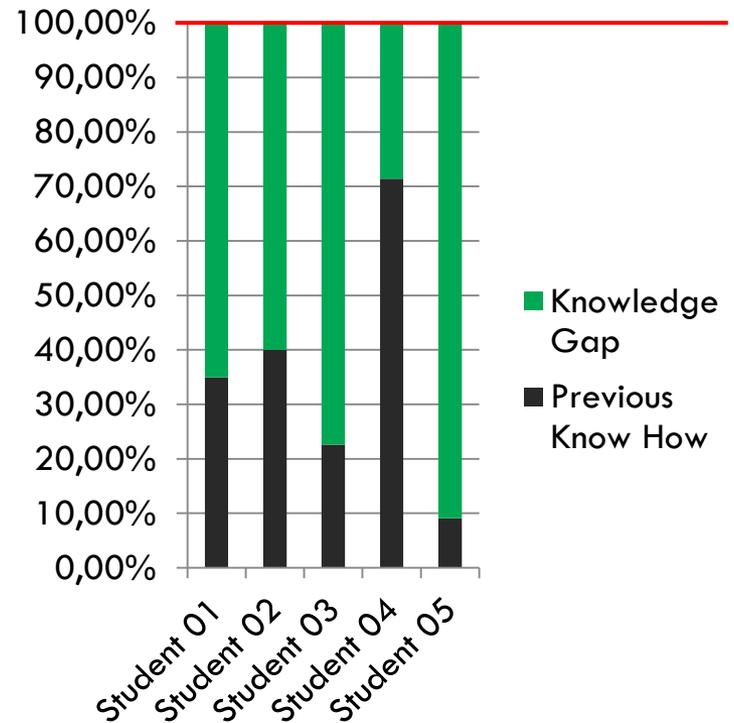
Module 1 - FUNDAMENTALS OF EMERGENCIES, DISASTERS AND CBRNE EVENTS MANAGEMENT (E-LEARNING)

The **aim** of the module is to provide the student with **basic concepts** for the **management of emergencies, disasters and CBRNe events.**

This individual study of documents facilitates the **development of schemas and mental models** the students use to organize and simplify their knowledge and classify concepts and notions.

These conceptual structures help students to fill in the gaps to get a comprehensive and well-organized educational background and **a common level of knowledge** on these specific aspects to attend further modules of the curriculum.

Common Level of Knowledge



Module 1 - FUNDAMENTALS OF EMERGENCIES, DISASTERS AND CBRNE EVENTS MANAGEMENT (E-LEARNING)

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MODULE 1 - LEARNING OBJECTIVES AND MAIN TEACHING POINTS

LO 1 – INTERNATIONAL COOPERATION FOR EMERGENCIES AND DISASTERS PREPAREDNESS AND MANAGEMENT - FUNDAMENTALS

By the end of the module, the students should be able to describe in broad terms main international organizations involved in the management of possible emergencies and disasters and their roles and responsibilities.

Teaching Point	Method and Time	References and Notes
1.1 Civil and military management of crisis and emergencies	Individual Study (240 Min)	E-learning platform Docs
1.2 International Organizations in emergencies and disasters preparedness and management	Individual Study (240 Min)	E-learning platform Docs
1.3 International cooperation for emergencies and disasters management	Individual Study (240 Min)	E-learning platform Docs

LO 2 – CBRNE EVENTS MANAGEMENT - FUNDAMENTALS

By the end of the module, the students should be able to illustrate the main characteristics and effects of CBR agents release and principles to take into consideration for the management of CBRNe events.

Teaching Point	Method and Time	References and Notes
2.1 CBRNe defence fundamentals, threats, and hazards	Individual Study (240 Min)	E-learning platform Docs
2.2 Policy and international cooperation	Individual Study (240 Min)	E-learning platform Docs
2.3 CBR agents and unconventional weapons overview	Individual Study (180 Min)	E-learning platform Docs
2.4 Principles of CBRNe events management	Individual Study (180 Min)	E-learning platform Docs

LO 3 –EMERGENCY RISK COMMUNICATION - FUNDAMENTALS

By the end of the module, the students should be able to describe in broad terms main principles of emergency risk communication and explain main aspects to take into consideration for the development of an effective communication plan in case of emergencies.

Teaching Point	Method and Time	References and Notes
3.1 Principles of the Communication and Mass Media	Interactive lectures (240 Min)	E-learning platform Docs
3.2 Emergency Communication and populace awareness	Interactive lectures (180 Min)	E-learning platform Docs
3.3 Emergency Communication Technics and Procedures overview	Interactive lectures (180 Min)	E-learning platform Docs

Module 2 - INTERNATIONAL COOPERATION FOR EMERGENCIES AND DISASTERS PREPAREDNESS AND MANAGEMENT

The **aim** of the module is to provide the student with **all aspects of the emergencies and disasters preparedness planning and management** in the context of the international cooperation activities and initiatives.

MODULE 2 - LEARNING OBJECTIVES AND MAIN TEACHING POINTS

LO 4 – CIVIL AND MILITARY MANAGEMENT OF CRISIS, EMERGENCIES AND DISASTERS		
By the end of the module, the students should be able to explain the Civil and Military emergency preparedness planning process, consequence management, main differences and cooperation activities.		
Teaching Point	Method and Time	References and Notes
4.1 Civil emergencies preparedness and consequence management	Interactive lectures (120 Min)	Instructor's notes
4.2 Military emergency preparedness and consequence management	Interactive lectures (120 Min)	NATO Strategic Concept EADRCC documents
4.3 Comprehensive approach and Civil-Military Cooperation	Interactive lectures (120 Min)	Instructor's notes
LO 5 – ROLES AND RESPONSIBILITIES OF INTERNATIONAL ORGANIZATIONS IN CRISIS, EMERGENCIES AND DISASTERS PREPAREDNESS AND MANAGEMENT		
By the end of the module, the students should be able to illustrate the Organizations involved in the management of emergencies, their role and responsibilities, the cooperation initiatives and projects.		
Teaching Point	Method and Time	References and Notes
5.1 International Law and Human Rights	Interactive lectures (120 Min)	OHCHR documents
5.2 History of IOs and overview of the International framework	Interactive lectures (120 Min)	Instructor's notes
5.3 UN-OCHA role and responsibilities	Interactive lectures (120 Min)	UN-OCHA documents
5.4 WHO role and responsibilities	Interactive lectures (120 Min)	Instructor's notes
5.5 EU-ERCC role and responsibilities	Interactive lectures (120 Min)	EU Decision n.1313/2013
5.6 OSCE role and responsibilities	Interactive lectures (120 Min)	OSCE Decision No. 3/11
5.7 NATO role and responsibilities	Interactive lectures (120 Min)	EADRCC documents
5.8 GOs, NGOs and other organizations	Interactive lectures (120 Min)	Instructor's Notes
5.9 Cooperation initiatives and projects	Interactive lectures (120 Min)	Instructor's Notes
LO 6 – GENERAL ASPECTS AND CHALLENGES DURING EMERGENCIES		
By the end of the module, the students should be able to explain the main aspects that have to be taken into consideration in the management of emergencies.		
Teaching Point	Method and Time	References and Notes
1.1 Operations management & coordination	Interactive lectures (120 Min)	Instructor's notes
1.2 Medical response to mass casualties	Interactive lectures (120 Min)	Instructor's notes
1.3 Logistics aspects	Interactive lectures (120 Min)	Instructor's notes
1.4 Psychological effects on the populace	Interactive lectures (120 Min)	Instructor's notes
1.5 Legal aspects	Interactive lectures (120 Min)	Instructor's notes
1.6 Current ops, LLs & Case Studies	Interactive lectures (120 Min)	Instructor's notes

Module 3 – CBRNE EVENTS MANAGEMENT

The **aim** of the module is to provide the student with **main and common aspects of CBRNe events preparedness and management** in the context of the international cooperation activities and initiatives.

The **specific aspects of CBRN scenarios are the focus of modules 4 (CHEM), 5 (BIO) and 6 (RAD-NUC).**

MODULE 3 - LEARNING OBJECTIVES AND MAIN TEACHING POINTS

LO 7 – GENERAL ASPECTS OF CBRNE DEFENCE

By the end of the module, the students should be able to explain the main principles and aspects of CBRNe risks, hazards and threats, CBR agents' characteristics and possible main effects.

Teaching Point	Method and Time	References and Notes
7.1 Overview of CBRNe risks and threats	Interactive lectures (180 Min)	Instructor's notes
7.2 CBRNe terrorism	Interactive lectures (180 Min)	Instructor's notes
7.3 CBRN Intelligence	Interactive lectures (120 Min)	Instructor's notes
7.4 CBRNe forensics and law enforcement	Interactive lectures (120 Min)	INTERPOL Docs
7.5 CBRNe principles and response measures	Interactive lectures (120 Min)	Instructor's notes

LO 8 – MAIN ASPECTS FOR CBR AGENTS MANAGEMENT

By the end of the module, the students should be able to describe and explain general aspects, technics and procedures in the management of agents.

Teaching Point	Method and Time	References and Notes
8.1 Detection, identification and monitoring technics overview	Interactive lectures (120 Min)	Instructor's notes
8.2 CBRN warning and reporting during CBRNe events	Interactive lecture with practical exercises (120 Min)	Standard emergency WR procedures & software
8.3 Individual and collective CBRN protection and dress levels	Interactive lectures (120 Min)	Instructor's notes
8.4 CBRNe hazard management overview	Interactive lectures (120 Min)	Instructor's notes
8.5 Individual, collective and material CBRN decontamination technics	Interactive lectures (120 Min)	Instructor's notes
8.6 Medical aspects in CBRNe scenarios	Interactive lectures (120 Min)	Instructor's notes

LO 9 – CBRNE POLICY AND INTERNATIONAL COOPERATION

By the end of the module, the students should be able to illustrate the international policy, main references, Civil-Military CBRNe preparedness & consequence management, cooperation initiatives and projects.

Teaching Point	Method and Time	References and Notes
9.1 International CBRNe policy	Interactive lectures (180 Min)	UNSCR 1540 and following references, EU-NATO docs
9.2 International non-proliferation initiatives and conventions	Interactive lectures (180 Min)	EU CBRN action plan NATO's strategic policy & comprehensive approach
9.3 Civil-Military CBRNe events preparedness and consequence management	Interactive lectures (180 Min)	EU CBRN CoEs initiative
9.4 International CBRNe cooperation initiatives and projects	Interactive lectures (180 Min)	Principles of the Law of Armed Conflicts (LOAC) Geneva Protocol 1925 BWC 1972/CWC 1993

Module 4 – MANAGEMENT OF CHEMICAL RELEASES SCENARIOS

The aim of the module is to provide the student with a **comprehensive overview of current and emerging chemical hazard, risks and threats** within the context of the **international policy, response measures and capabilities** to face possible releases of chemical agents.

MODULE 4 - LEARNING OBJECTIVES AND MAIN TEACHING POINTS

LO 10 – CHEMICAL AGENTS FUNDAMENTALS		
By the end of the module, the students should be able to explain chemical agents, their classification, characteristics and effects.		
Teaching Point	Method and Time	References and Notes
10.1 The History of chemical weapons	Interactive lectures (60 Min)	Instructor's notes
10.2 Classification and characteristics of agents, CWA, TIC and dual use	Interactive lectures (180 Min)	Instructor's notes
10.3 Chemical agents effects on humans	Interactive lectures (120 Min)	Instructor's notes

LO 11 – INTERNATIONAL POLICY, CHEMICAL SAFETY AND SECURITY		
By the end of the module, the student should be able to describe the risks, hazards, threats of chemical agents, the CHEM safety and security within the context of international policy and main initiatives		
Teaching Point	Method and Time	References and Notes
11.1 Chemical risks, hazards and threats	Interactive lectures (120 Min)	Instructor's notes
11.2 Chemical terrorism	Interactive lectures (60 Min)	Instructor's notes
11.3 Overview of international policy, principles and main organizations	Interactive lectures (120 Min)	Instructor's notes
11.4 CW treaties, non-proliferation initiatives, transnational course of actions for illicit trafficking & CWA disablement	Interactive lectures (120 Min)	Instructors from OPCW, UNICRI and INTERPOL
11.5 Chemical threats and preparedness	Interactive lectures (120 Min)	Instructor's notes
11.6 Security measures and cyber defence of critical infrastructures and laboratories	Interactive lectures (60 Min)	Instructor's notes
11.7 Safety measures and procedures	Interactive lectures (60 Min)	Instructor's notes
11.8 Legal considerations on chemical agents	Interactive lectures (60 Min)	Geneva Convention/ CWC

LO 12 – MANAGEMENT OF CHEMICAL RELEASES SCENARIOS		
By the end of the module, the students should be able to illustrate the capabilities and procedures to defeat, mitigate and manage chemical agents' threat and possible releases.		
Teaching Point	Method and Time	References and Notes
12.1 Chemical detection & identification and developments in CHEM technology	Interactive lectures (120 Min)	Instructor's notes
12.2 Warning & reporting in case of release	Interactive lectures (120 Min)	Instructor's notes
12.3 Chemical sampling and analysis	Interactive lectures (120 Min)	WR procedures & software
12.4 Physical protection	Interactive lectures (120 Min)	Instructor's notes
12.5 Hazard management & decontamination	Interactive lectures (120 Min)	Instructor's notes
12.6 Prophylaxis and treatments of victims	Interactive lectures (120 Min)	Instructor's notes
12.7 Management of releases & casualties	Interactive lectures (240 Min)	Instructor's notes
12.8 Case studies and lessons learned	Interactive lectures (120 Min)	Instructor's notes

Module 5 – MANAGEMENT OF OUTBREAKS AND BIOLOGICAL RELEASES SCENARIOS

The **aim** of the module is to provide the student with a **comprehensive overview of current and emerging biological hazard, risks and threats** within the context of the **international policy, biological response measures and capabilities** to face possible biological releases and outbreaks.

MODULE 5 - LEARNING OBJECTIVES AND MAIN TEACHING POINTS

LO 13 – BIOLOGICAL AGENTS FUNDAMENTALS		
By the end of the module, the students should be able to explain biological agents, their classification, characteristics and effects.		
Teaching Point	Method and Time	References and Notes
13.1 The History of biological weapons	Interactive lectures (60 Min)	Instructor's notes
13.2 Classification and characteristics of agents, BWA, TIB and dual use	Interactive lectures (180 Min)	Instructor's notes
13.3 Biological agents effects on humans	Interactive lectures (120 Min)	Instructor's notes

LO 14 – INTERNATIONAL POLICY, BIOLOGICAL SAFETY AND SECURITY		
By the end of the module, the student should be able to describe the risks, hazards, threats of biological agents, the BIO safety and security within the context of international policy and main initiatives		
Teaching Point	Method and Time	References and Notes
14.1 Biological risks, hazards and threats	Interactive lectures (120 Min)	Instructor's notes
14.2 BIO terrorism	Interactive lectures (60 Min)	Instructor's notes
14.3 Overview of international policy, principles and main organizations	Interactive lectures (120 Min)	Instructor's notes
14.4 BW treaties, non-proliferation initiatives & transnational COAs for illicit trafficking	Interactive lectures (120 Min)	Instructor's notes
14.5 Biological threats and preparedness	Interactive lectures (120 Min)	Instructor's notes
14.6 Security measures and cyber defence of critical infrastructures and laboratories	Interactive lectures (60 Min)	Instructor's notes
14.7 Safety measures and procedures	Interactive lectures (60 Min)	Instructor's notes
14.8 Legal considerations on biological agents	Interactive lectures (60 Min)	Geneva Convention/ BWC

LO 15 – MANAGEMENT OF OUTBREAKS AND BIOLOGICAL RELEASES SCENARIOS		
By the end of the module, the students should be able to illustrate the capabilities and procedures to defeat, mitigate and manage biological agents' threat and possible releases.		
Teaching Point	Method and Time	References and Notes
15.1 Biological detection & identification and developments in BIO technology	Interactive lectures (120 Min)	Instructor's notes
15.2 Warning & reporting for outbreaks	Interactive lectures (120 Min)	Instructor's notes
15.3 Biological sampling and analysis	Interactive lectures (120 Min)	WR procedures & software
15.4 Physical protection	Interactive lectures (120 Min)	Instructor's notes
15.5 Hazard management & decontamination	Interactive lectures (120 Min)	Instructor's notes
15.6 Prophylaxis and treatments of victims	Interactive lectures (120 Min)	Instructor's notes
15.7 Management of outbreaks & victims	Interactive lectures (240 Min)	Instructor's notes
15.8 Case studies and lessons learned	Interactive lectures (120 Min)	Instructor's notes

Module 6 – MANAGEMENT OF NUCLEAR EVENTS AND RADIOLOGICAL SCENARIOS

The aim of the module is to provide the student with a comprehensive overview of current and emerging nuclear and radiological hazard, risks and threats within the context of the international policy, response measures and capabilities to face possible nuclear events and radiological scenarios.

MODULE 6 - LEARNING OBJECTIVES AND MAIN TEACHING POINTS

Teaching Point	Method and Time	References and Notes
LO 16 – RADIATIONS, NUCLEAR WEAPONS AND NUCLEAR POWER FUNDAMENTALS		
By the end of the module, the students should be able to explain the radiological sources classification, characteristics and effects and describe the historical developments in nuclear energy technologies.		
16.1 History of radiations discoveries, nuclear weapons and nuclear power technologies	Interactive lectures (120 Min)	Instructor's notes
16.2 Classification and characteristics of radiological sources, TIR and dual use	Interactive lectures (180 Min)	Instructor's notes
16.3 Effects of radiations on humans	Interactive lectures (120 Min)	Instructor's notes
LO 17 – INTERNATIONAL POLICY, NUCLEAR SAFETY AND SECURITY		
By the end of the module, the student should be able to describe the risks, hazards, threats of radiations and nuclear weapons, safety and security of critical infrastructures and international policy and initiatives.		
17.1 Radiological risks, hazards and threats	Interactive lectures (120 Min)	Instructor's notes
17.2 Nuclear terrorism and radiological dispersal devices	Interactive lectures (60 Min)	Instructor's notes
17.3 Overview of international policy, principles and main organizations	Interactive lectures (120 Min)	Instructor's notes
17.4 Nuclear treaties, non-proliferation initiatives and COAs for illicit trafficking	Interactive lectures (120 Min)	Instructor's notes
17.5 Threats and preparedness	Interactive lectures (120 Min)	Instructor's notes
17.6 Security measures and cyber defence of critical infrastructures and laboratories	Interactive lectures (60 Min)	Instructor's notes
17.7 Safety measures and procedures	Interactive lectures (60 Min)	Instructor's notes
17.8 Legal Considerations	Interactive lectures (60 Min)	Instructor's notes
LO 18 – MANAGEMENT OF NUCLEAR EVENTS AND RADIOLOGICAL SCENARIOS		
By the end of the module, the students should be able to illustrate the capabilities and procedures to defeat, mitigate and manage radiological threats and possible scenarios.		
18.1 Radiological detection & identification	Interactive lectures (120 Min)	Instructor's notes
18.2 Warning and reporting of events	Interactive lectures (120 Min)	Instructor's notes
18.3 Physical protection	Interactive lectures (120 Min)	WR procedures & software
18.4 Hazard management, exposures records and decontamination	Interactive lectures (120 Min)	Instructor's notes
18.5 Prophylaxis & treatments after exposure	Interactive lectures (120 Min)	Instructor's notes
18.6 Management of Nuclear/Rad events	Interactive lectures (180 Min)	Instructor's notes
18.7 Case studies from real events	Interactive lectures (240 Min)	Instructor's notes

Module 7 – CRISIS AND EMERGENCY RISK COMMUNICATION

The **aim** of the module is to highlight, emphasize and teach **main aspects on communication, information management, technics and procedures to be taken into consideration and applied during emergencies and CBRNe events.**

MODULE 7 - LEARNING OBJECTIVES AND MAIN TEACHING POINTS

LO 19 – PRINCIPLES OF THE COMMUNICATION AND MASS MEDIA
By the end of the module, the students should be able to explain the principles and concepts about the communication and information management and sharing.

Teaching Point	Method and Time	References and Notes
19.1 Principles of communication	Interactive lectures (120 Min)	Instructor's notes
19.2 Communication effectiveness	Interactive lectures (120 Min)	Instructor's notes
19.3 Internal and external communication	Interactive lectures (120 Min)	Instructor's notes
19.4 Mass Media, new Media and public perceptions	Interactive lectures (120 Min)	Instructor's notes

LO 20 – EMERGENCY COMMUNICATION AND POPULACE AWARENESS
By the end of the module, the students should be able to describe main principles and technics for an effective communication activity and planning for emergencies and CBRN events management.

Teaching Point	Method and Time	References and Notes
20.1 Communication with the public: challenges during emergencies and population awareness	Interactive lectures (120 Min)	Instructor's notes
20.2 Information management and sharing	Interactive lectures (120 Min)	Instructor's notes
20.3 Emergency communications in disasters	Interactive lectures (120 Min)	UN emergency comms.
20.4 Planning of communication strategies to face unexpected situations	Interactive lectures (120 Min)	Instructor's notes
20.5 Communicating in the first hours: pre-events standard messages and materials	Interactive lectures (120 Min)	Pre-defined Messages/ reports/ radio/ script/ websites/ podcasts and public announcements
20.6 EU international initiatives & cooperation	Interactive lectures (120 Min)	EU CBRN action plan
20.7 Case studies & best practices	Interactive lectures (120 Min)	Instructor's Notes

LO 21 – PRACTICAL APPLICATION OF EMERGENCY COMMUNICATION TECHNIQUES AND PROCEDURES
By the end of the module, the students should be able to apply techniques and procedures, develop an effective communication, work with media and use standard key-messages and materials before, during and after an emergency.

Teaching Point	Method and Time	References and Notes
21.1 Introduction to the scenario	Interactive lectures (120 Min)	Exercise reference docs
21.2 Roles, responsibility and procedures	Interactive lectures (120 Min)	Exercise reference docs
21.3 Situation & communication Plan Analysis	Collective Study (60 Min)	Exercise reference docs
21.4 Communication in different scenarios	Practical exercises (600 Min) (Syndicates max 5 st. each)	Scenarios: earthquakes, landslides, mudslides, floods, CBRNe events (...)
21.5 Hot wash up, final comments and closing	Open discussions (60 Min)	Instructor's notes

MODULE 8 – TTX LEARNING OBJECTIVES AND MAIN SCENARIOS

Module 8 – TABLE TOP EXERCISE FOR EMERGENCIES, DISASTERS AND CBRNE EVENTS MANAGEMENT

The **aim** of the Table Top Exercise (TTX) is to provide the student **different scenarios** in order to put into practice notions learned during previous modules and **apply technics and procedures for the management of specific aspects and consequences of crisis, emergencies, disasters and CBRNe events**, in the context of the international policy and main references.

LOs 1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21 (MODULEs 1-2-3-4-5-6-7)

CRISIS, EMERGENCIES, DISASTERS AND CBRNE EVENTS MANAGEMENT

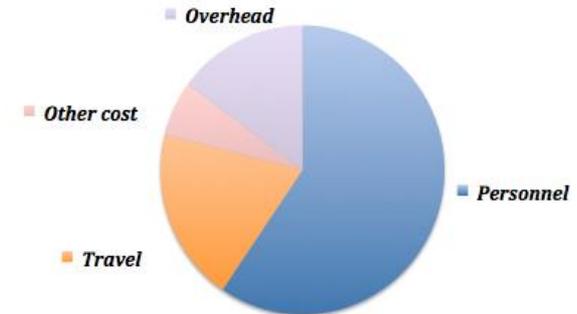
By the end of the curriculum, in reference to the notions acquired, the students should be able to manage effectively emergency situations providing advices to decision makers and finding solutions to the specific aspects, possible effects and consequences in the context of the international policy and procedures.

Teaching Point	Method and Time	References and Notes
Introduction to the situation	Interactive lectures (180 Min)	Facilitators' notes, SITMAN, reference docs
1. Landslide and mudslide management	Analysis of Exercise Scenario 01 (180 min)	Facilitators' notes, SITMAN, reference docs
2. Flood management	Exercise – Scenario 02 (180 min)	Facilitators' notes, SITMAN, reference docs
3. Earthquake management	Exercise – Scenario 03 (180 min)	Facilitators' notes, SITMAN, reference docs
4. Accidental TIM release management	Exercise – Scenario 04 (180 min)	Facilitators' notes, SITMAN, reference docs
5. Natural outbreaks and epidemic management	Exercise – Scenario 05 (180 min)	Facilitators' notes, SITMAN, reference docs
6. Sabotage of industrial unit and consequent release of TIM (TIB/TIC/TIR) and management	Exercise – Scenario 06 (180 min)	Facilitators' notes, SITMAN, reference docs
7. Intentional release of CBR agents management	Exercise – Scenario 07 (180 min)	Facilitators' notes, SITMAN, reference docs
8. Intentional release of radiological sources (RDDs) management	Exercise – Scenario 08 (180 min)	Facilitators' notes, SITMAN, reference docs
9. Sabotage in a Nuclear Power Plant (NPP) and consequent fall out and management of exposures	Exercise – Scenario 09 (180 min)	Facilitators' notes, SITMAN, reference docs
10. Cyber-attack to critical infrastructures and consequent CBRNe events management	Exercise – Scenario 10 (180 min)	Facilitators' notes, SITMAN, reference docs
After Action Review and conclusions	Interactive lectures (180 Min)	Facilitators' notes Exercise reference docs

THE BUSINESS PLAN

Costs Analysis

Personnel: 1 Associate, 2 Researchers, 90 Speakers, 5 Technicians
Travel / Other Costs / Overhead



Self-Sustainability

To have the self-sustainability of the project, fees have been calculated :

Self-Sustainability	20 Students	25 Students	30 Students
Costs Entire Curriculum	11.762,50 €	9.410,00 €	7.841,67 €
Costs Single Modules	1.680,36 €	1.344,29 €	1.120,24 €
Fee Entire Curriculum	12.000,00 €	10.000 €	8.000,00 €
Fee Single Modules	1.700,00 €	1.400,00 €	1.200,00 €

Possible External Funding

This proposal could be inserted in a more complex project for the **participation in H2020** call **DRS-3-2015 Crisis management** topic 3: Demonstration activity on large scale disasters and crisis management and resilience of EU external assets against major identified threats or causes of crisis.

CONCLUSIONS

This proposal for an innovative curriculum **to prepare high-qualified experts** able to intervene quickly as advisors in the **management of all kind of emergencies**, included CBRN events, represents the commitment **to contribute to the international security for a prompt and effective response in case of disasters (H2020).**

The curriculum would be **a training offer unique in complexity and range of topics covered** and, with the support of several **International Organizations** that are working in the field of emergencies, a real **international experience** focused on the international techniques and procedures to face **extreme, complex and most challenging scenarios.**