

Session objectives / Pre-course Background reading

- Workshop Purpose and Objectives

Provides participants with the background of the workshop within the IFRC CBRN preparedness programme. Gives a brief overview of the underlying policies, resolutions and legal frameworks. It touches the various roles a national society can / should play within the emergency preparedness cycle.

Reading list:

- [General assembly resolution 11/46](#)
- Intl Conference Resolutions 1986 & 1995

- IFRC Guidelines on Nuclear and Radiological Emergencies

Objective of this session is to provide the workshop participant with the basic structure and background of the guidelines. What can be found in there and what not.

Reading list:

- [IFRC Nuclear & Radiological Emergency Guidelines](#)

- Basics of Nuclear and Radiation protection

Objective:

Provides participants with a Basic knowledge on what radioactive and nuclear material is, where it is used, what kinds of events are common and what basic protection measures can be used.

Reading / pre course list:

- IFRC / Italian RC - Summerschool:
 - [Video lessons](#): Ionising Radiation / Radiation exposure and Biological impact
[for registered and confirmed user only]
- [IAEA e-learning module: Basics of radiation protection](#) (available on IFRC learning platform)
- [UNEP Radiation, Effects and resources](#)
- [WHO factsheet: Ionizing radiation, health effects and protective measures](#)
- [IAEA: The International Nuclear and Radiological Event scale \(INES\)](#)

- Experiences and Lessons learned from Fukushima

This session will provide you with an in depth look at NS preparedness activities following the events after the great Eastern Japan Earthquake and Tsunami which triggered the Fukushima – Daiichi accident. It will give details on the JRCs guidelines for nuclear emergencies, JRCs network of Nuclear advisors, the related curricula and training and the Equipment acquired by JRCs.

Reading / pre course list:

- [Red Cross Nuclear disaster resource centre:](#)
 - Digital Archive: JRCs guidelines
 - Challenges and considerations
 - Training material
- IFRC / JRCs Fukushima-Daiichi case study

- Risk assessment, Hazard identification and Risk informed approach

This session aims to provide you details of the ICRC practised approach of Risk informed operations. The risk assessment and management approach is at the basis of each intervention and especially for CBRN events a crucial issue to consider. The theoretical session is followed by a Risk Analysis Group Exercise.

Reading list:

- [IFRC Nuclear & Radiological Emergency Guidelines](#)
 - Chapter “Assessment and Risk Analysis”
- [ICRC Chemical, Biological, Radiological and Nuclear Response: Introductory Guidance](#)

- Roles & Responsibility (45 min)

The session provides an overview of the different actors that might be involved in preparedness and response to CBRN events and the current international arrangements for Radiological and nuclear emergencies. It also looks at the findings of a recent mapping of legal responsibilities and potential capacities.

Reading list:

- [IFRC Nuclear & Radiological Emergency Guidelines](#)
 - Chapter 4: Roles and responsibilities
 - Chapter 9: Engaging and coordinating partners
- [IAEA Joint radiation emergency plan for International Organisations \(JPLAN\)](#)
- [IAEA: Actions to protect the public in an Emergency](#)

- NS Duty of Care / Safety of staff and Volunteers (60 min)

The objective is to make participants aware of different aspects to take into consideration on duty of care for NS staff and volunteers, safety issues within different scenarios involving CBRN hazards.

Reading list:

- [IFRC Nuclear & Radiological Emergency Guidelines](#)
 - Chapter8: Staff and volunteer deployment and safety
- IFRC / Italian RC – Summer school:
 - Video lessons: Safety of staff & volunteers: case study Austrian RC / Personal Protective equipment

- Service delivery plans & Hazardous materials planning considerations

The aim of this session is to provide within the wide context of emergency response services provided by the different RC National societies some common aspects which need to be considered to successfully provide relief activities in CBRN events

Reading list:

- [IFRC Nuclear & Radiological Emergency Guidelines](#)
 - Chapter5: NS Nuclear emergency response planning aid / planning for the response phase
 - Chapter 6: Response checklist / Service delivery plans
- [IFRC Setting up a National disaster preparedness and response mechanism](#)

- Basics of Chemical & Biological Hazards

This session expands the picture from radiological and nuclear to CBRN - chemical, biological, radiological and nuclear. Different chemical and biological hazards are explained and typical examples of chemical and biological events are given.

- Pre- Reading:
 - [ICRC: Chemical, Biological, Radiological and Nuclear Response: Introductory Guidance](#)
 - [WHO Manual for the Public Health Management of Chemical Incidents](#)

- First response to CBRN Accidents

This lecture gives an overview on the first steps at the scene of a CBRN event, with a special focus on the delivery of First Aid and staff safety. It also deals with decontamination and transport of the injured.

- Pre-Reading:
 - [IAEA First Responders Manual](#)

- Medical Aspects of RN events

The session will provide details on preparedness and response on the medical side.

A lecture on medical aspects of radiological and nuclear events, explaining stochastic and deterministic effects, touch very briefly about medical treatment in the hospital, about long term follow-up, and bring some figures from Chernobyl and Fukushima and also give one or two examples of radiological accidents.

- CBRN Preparedness at the Austrian RC

Short briefing and Demonstration of AutRC capacities and plans in CBRN. The Vienna branch will show their equipment and demonstrate in a small exercise their capacities.

- Effective Risk communication during CBRN events
- Community engagement, Rumour control and feedback mechanism

The aim of this session is to present an overview of effective risk and crises communication in response to CBRN events and to look at the challenges and pitfalls. It should as well facilitate the participants to acquire practical knowledge and skills

- Pre-course reading
 - [IAEA communicating with the public](#)
 - [UNU Fukushima Global communication programme](#)
 - [FEMA: Communicating during and after a Nuclear power plant incident](#)

Contact information for questions;

Martin Krottmayer

Sr.Officer, Nuclear Emergency Preparedness

Programmes and Operations

International Federation of Red Cross and Red Crescent Societies

Email: nuclear.emergency@ifrc.org