

CBRN Academy

“Assistance and Protection Training Course”

PROGRAMME PLAN



TRAINING PROGRAMME

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SCP Assistance and Protection Training Course

Participants in the course are to be able to recognise the Swedish system for protection and participate in the actual CW-rescue operations with the Chemical Support Team and in addition:

- Understand the planing and conduct handing out individual protective equipment (IPE) to civilian population
- plan organise and conduct air-tightness checks of protective masks by using tear gas
- plan, conduct and use prepared detection and warning- and detection instrument
- monitor, report and mark out clean areas for decontamination site and roads for casualties and evacuees transport from the contaminated area
- plan, conduct rescue operations phase in damaged contaminated areas
- establish and build up a decontamination area and initiate decontamination of casualties, evacuated civilians and relieved rescue units within 60 minutes
- establish decontamination station for decontamination of protective equipment and vehicles of the deployed units
- break up the decontamination area, decontaminate and restore own unit within 12 hours of the completed decontamination operation
- take appropriate measures to limit the effects of contagious substances
- be able to function as officers and rescue personnel in the international Chemical Support Team (CST) to CWC and OPCW

Previous knowledge

The course syllabus requires that the student is conversant with:

- protective equipment in general
- using protective breathing mask (canister)
- the basics of CW-rescue chemistry
- the basics of Chemical Weapons properties
- the basic of CWC

The participants should be physically fit to use protective equipment and passed medical examination

Time allocation

Partial objectives	Hrs
Introduction, college, schedule, goals and objectives, demo	6
Support Team, organisation, equipment	2
CW-agents, basics	4
Civil protection, system, equipment, study visit	8
Individual protection equipment (IPE), handling, communication	10
CW-detection systems, methods, instruments	2
CW-detection system, instrument training, mobile systems, GARDS	8
CW-tactics, scenarios, weather effects	3
Decontamination, system	2
Decontamination, equipment (sprayer, weather-station) ...	10
CW-agents, special training	8
Radioactive sources and instruments	6
BW-agents, basics	8
CW-rescue operations, exercise	14
Radiologic and Biological practical training	12
R – practical training, “Dirty Bomb”, B – practical training	8
Equipment maintenance	2
Test, evaluation	4
Personal equipment and clothing (collection & return to storage)	3
Total	120

Introduction

6 hrs

Objective: The participants are to be trained and informed about the overall objectives and requirements that are presented in the programme plan.

The participants are also to be informed and trained in the role of support resources in CW-related incidents and attacks. Some useful parallels should be drawn from organisation, tactics and techniques from actions within a municipality in the event of a chemical accident.

The participants are to be informed in the understanding of the Chemical Weapons Convention (CWC) and the function of the Swedish Chemical Support Team.

- Course introduction
- MSB organisation
- Aims and objectives
- Programme schedule
- College
- Demo of "Unknown release" (ROTA)
- Discussions about "components in rescue operations"

Support Team, organisation, equipment

2 hrs

Objective: The participants are informed of Swedish Chemical Support Team to Chemical Weapons Convention (CWC) and OPCW.

- Swedish declaration according to art. X
- SCST
- Assignment, tasks
- Organisation
- Personnel
- Equipment
- Discussion

CW-agents basics

4 hrs

Objective: The participants are to be informed and trained in the characteristics of Chemical Warfare Agents and the effects on people and the environment.

- History, properties, agents dispersal
- Protective measures
- Detection, weather
- Decontamination
- Counteractant and antidotes
- Prophylactics
- Discussion

Civil protection, system, equipment, study visit

8 hrs

Objective: The participants are to be informed about the Swedish system for protection of the population.

- Swedish system
- Preparations and plans
- Shelter
- Warning system
- Breathing system
- Storage
- Handing out protective equipment
- Study visit

Individual Protection Equipment (IPE)

10 hrs

Objective: The participants are to be informed and trained with the Swedish protective equipment employed during a state of preparedness and alert. The performance of protection equipment and skills in handling and working in protective equipment is displayed. The student is to be trained in how air-tightness checks are carried out, safety regulations, tent employed in air-tightness checks of masks and the organisation of an air-tightness checks.

- Protection System 2000, ("donning and doffing")
 - Protective mask 90
 - Rescue Suit 90 with accessories
 - Protective suit 90
 - Protective undergarment
 - Impermeable light suite
 - Cooling vest
 - Helmet
- Training in protective equipment
 - Preparations
 - Drinking

- Changing filter
- Walking
- Running
- “Doffing for decontamination”
- Air-tightness checks, implementation, safety and raising of tent used for air-tightness checks
- Handling and maintenance of protective equipment
- Communication equipment

CW-detection systems, methods, instruments

2 hrs

Objective: The participants is to be informed and trained in the various types of detection and warning systems, their operation, handling and monitoring methods.

- Basic demands of detection
- Basic system
 - Basic paper detectors
 - Tickets for nerve agents and mustard gas
 - Other basic systems
- Methods
- Detection instruments
 - Alarm instruments
 - Monitors
 - Distance (stand off) detection instrument
- Warning systems
- Surface detection
- Prepared detection
- Handling
- Sample taking

CW-detection system, instrument training, GARDS

8 hrs

Objective: The participants are to be trained in the various types of detection systems.

- RAID handling
- AP2C handling
- GARDS
- Problems and solutions
- Development, future

CW-tactics

3 hrs

Objective: The participant is to be informed and trained in tactical principles employed in an operation dealing with Chemical Warfare Agents and Chemical Weapons.

- Scenarios
- Tactics of the aggressor
- Operational principles
- Information-, reporting- and decision support
 - RIB (Rescue Services Information System)
 - BFK (Calculation Modules for Chemicals and CW-agents)
- Need for co-ordinated operation
- Need for planning
- Various concepts
- Rescue operations in affected areas

Decontamination, system

2 hrs

Objective: The participants are to be trained in the principles of decontamination, tactics and techniques.

- Principles
- Personal decontamination
- Equipment decontamination
- Methods
- Tactics
- Techniques
- Decontamination area
- Decontamination of CW- casualties
- Decon of evacuated persons
- Decon of units and teams
- Decon of heavy equipment
- Decon of protective clothing and personal equipment

Decontamination equipment

10 hrs

Objective: The participants are to be trained in the principles of decontamination, the handling and maintenance of decontamination equipment in decontamination area.

- Principles of decontamination area
- Cleaning system HB
 - Introduction, contents, handling
- "Decon line C" for casualties
 - Decon tent
 - "Dry" decon equipment
- "Decon line B" for evacuees
 - Equipment
- "Decon line A" for units and teams
 - Shower tent
 - Shower unit
 - Self-erecting tank with submersible pump
 - High pressure cleaning system
- Equipment for decontamination of vehicles and equipment
 - Mixer/sprayer for emulsion (DS 10)
 - Making emulsion
 - Training emulsion
- Decontamination container
 - Loading with equipment
 - Running decon cycles
 - Unloading equipment
 - Lighting equipment
 - Weather station

CW-agents, special training

8 hrs

Objective: The participants are to be trained in the physical characteristics and effects of CW-agents. Demonstration and handling in special area.

- Safety and preparations
- Training area
- Decontamination system
- Demonstration
- Mixing of emulsion

- Contamination of surface
- Detection exercise
- Decontamination exercise
- Equipment decontamination
- System decontamination and shut down
- Decon of personnel
- Cleaning the area

Radioactive sources and instruments

6 hrs

Objective: The participants is to be trained in the occurrence of ionising radiation, risks and effects, as well as protection against ionising radiation. The participants are to be informed about the effects of nuclear weapons on people and the environment. Participants are to be informed and trained in handling measuring instruments and decontamination. The student is to be able to select suitable protective equipment, estimate risk distances and take measures that limit the effects in the damage area.

- Occurrence of ionising radiation and its effects on people and the environment
- Protection against ionising radiation
- Measures to be taken at accidents involving radioactive substances
- Characteristics and effects of nuclear weapons
- Degrees of preparedness
- Measuring devices, intensity meter/dosimeter
- Monitoring methods, instruments
- Intensimeter SRV 2000
- Decontamination methods

BW-agents, basics

8 hrs

Objective: The participants are to be trained in the effects of biological warfare agents. Moreover, the student is to be familiar with protective and preventive measures.

- BW-agents, history
- Treats, scenarios
- Protection
- Protective measures
- Preventive measures
- BW-scenario group exercises

CW-rescue operations, exercise

14 hrs

Objective: The participants shall, under realistic conditions, put into practice those skills and knowledge that he/she has acquired during the course of this training programme.

- Preparations and planning for different scenarios
- Organisation, structure, communication
- Equipment preparation, starting point
- Alarm, "call-out" and transport to damaged area
- Detection, warning instrument in first truck
- Reporting of "CW-agent" or not, communication
- Responders in to the affected area, first action: breathing system- stop bleeding-decontamination of bare skin-auto injector (ev)-transport out of contaminated area
- Reccy of "free areas" for decon area
- Establish a contamination area, "line A" for decontamination of casualties.
- Establish "line B" for evacuees and "line C" for decon of units and teams.

Radiologic and Biological practical training

12 hrs

Objective: The participants shall receive specific Radiologic and Biological training, simulated with "real – life" scenarios

R & B – practical training

4 hrs

Objective: The participants shall receive R – practical training such as "Dirty Bomb" and other chosen scenarios. B – practical training with scenarios like EBOLA and other similar disasters occurred.

Equipment maintenance

2 hrs

Objective: The students are to service and return the support resource materials to the repository.

- Service of the support resource - pooled materials
- Return of materials to repository

- Return of personal equipment

Test, evaluation

4 hrs

Objective: The participants will during the course make some test on subjects of the week or special subjects under safety regulations. Evaluation and lessons learned of the course will be made individually as well as in the group during and in the end of the course.

- Test of safety regulations
- Weekly test
- Evaluation (written)
- Discussion
- Lessons learned

Personal equipment and clothing (collecting storage)

3 hrs

Objective: The participants will receive working clothes as well as protective clothes and equipment for use during the course.

The participants will also receive a bag for transport of the protective items and a special locker to handle and lock in equipment and clothes for safety.

- Handing out personal protective equipment
- Maintenance and airing after use
- Handing in equipment

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