

Module 2 Terrorism & CBRN awareness course for Business Community

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Please email for course dates and cost tech@999team.org

Foreword

This module provides employees with a good understanding of the effects and defence from a terrorist CBR (*chemical biological radiological*) event. Emphasis is on information and practical advice to reduce risk, protect and improve resilience.

1) Risk & Hazards of CBR

- a) CBR agents and their effects on humans
 - i) Chemical
 - ii) Biological
 - iii) Radiological
- b) Acute and Chronic health effects
- c) Rationalisation of agent Risk
- d) Dispersal and vector agents
- e) Covert & Overt Release
- f) Identification of CBR event
 - i) Notification
 - ii) Casualties
 - iii) Visual symptoms
- g) Casualty Rules (safe response)
 - i) 1-2-3 rules
 - ii) Contaminated ratios 5:1
 - (1) Mass decontamination precautions

2) Police & Blue Light Issues (Urban Environment)

- a) CCA Civil contingencies act
 - i) Special powers
 - ii) Support issues
- b) Blue Light Response issues to
 - i) Internal single event
 - ii) Wide area (dirty bomb type) event
- c) Contamination Spread
 - i) Plume
 - ii) Swirl
 - iii) General considerations for evacuation
- d) Perimeter controls
 - i) Control issues
- e) Boundary issues

3) Emergency Services Reaction & Response

- a) Expected Time line to assistance Internal Event
- b) Expected Time line to assistance External Event
- c) Explanation of Zone controls, Hot – Cold
- d) Transit through Control zones risk and hazard
- e) Public control and obedience factors

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- f) Casualty procedures and assistance
- g) Local Hospital facilities
- h) Welcome Home Issues!
- i) Best options
- j) Need to plan
- k) Decontamination issues**
 - i) Mass decontamination
 - ii) Personal decontamination
 - iii) Travel to decontamination centre
 - iv) Belongings and keys, money
- l) Blue Light Manpower resources and deployment
- m) Time line to safety & recovery

4) Health & Safety issues

- a) Medical assistance, requirements and circumstances
- b) Responsibilities of employer/employee
 - i) HSW act 1974 MHSW1999
 - ii) Responsibility of employees

- c) Need to plan and test
- d) Need for Resilience

5) Government Advice

- a) Go in-Stay In- Tune In
 - i) Rational
 - ii) Benefits
 - iii) Shortfalls

- b) Alternatives
 - i) Evacuation
 - ii) Benefits
 - iii) Shortfalls

6) External Release

- a) Typical agent characteristics
- b) Wind direction
 - i) Plume & Swirl
 - (a) Distribution
 - (b) Concentration
- c) Ingress and egress of contamination
- d) Height issues
- e) Exposure issues
- f) Route out, (escape)
- g) Caught in the open
- h) Time line to Safety
- i) Time lines to recovery

7) External Incident Response and Control

- a) Communication issues
- b) Activate Incident Response Teams
- c) Key issues
- d) Automated Engineering Controls
- e) Manual controls

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- f) Choice of team members
- g) Training & equipment
- h) Movement within the building
- i) Prevention of internal distribution

8) Evacuation

a) Considerations

- i) Demand (Police)
- ii) Self assessment
- iii) Alternatives
- iv) Practicality
- v) Panic evacuation
- vi) Return evacuees

b) Drawbacks of evacuation

- i) Time line
- ii) Safety considerations
- iii) Official controls
- iv) Transport systems
- v) Transit considerations
- vi) Spread or distribution of contaminate

9) Defending Buildings & Occupants Modules (B&G)

a) Unified Building Response plan

- i) using existing controls
 - (1) IRT (Incident Response teams)
- ii) authorities

b) Multi tenancy plan failure/interdependence

c) Internal Security Control (Education)

d) Boundary Trespasser control and procedures (Isolation)

e) Planning

- i) Management
- ii) Generic information
 - (1) DEFRA
 - (2) ODPM
 - (3) MI5
- iii) Specific Need

f) See Module on Planning Defence

10) Internal Incident & Exposure procedures

a) Notification and information distribution

b) Evacuate or Stay put

- i) rational

c) Mitigation and control issues

d) Information for Blue Light Attendance

e) Reception & Post room issues

- i) controls

11) Internal Incident Response & Control

a) Invoke Building specific incident plan

- i) IRT
- ii) Controls

b) Notify Police

c) Liaise with Responders

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12) Workplace contamination

- a) Internal dispersal
 - i) Ventilation
 - ii) Stack effect
 - iii) Movement issues
- b) Control issues
- c) Time lines

13) Protecting People

- a) PPE Last Choice (reasoning)
- b) Types and use
- c) Limitations & Benefits (**BSI Evaluation**)
- d) Availability and location of equipment
- e) Fitting & maintenance
- f) Don & doffing
- g) Maintenance & storage

14) Shelter in Place and Evacuation (*evaluation*)

- a) Choice of Official Order?
- b) Evacuation Procedures (**ODPM Review**)
 - i) Routes & en route considerations
 - ii) Overview of Success & Benefits
- c) Blue light Time line to assistance
- d) Review of CBR effects and importance of decontamination
- e) Go In-Tune in-Stay in
 - i) review
- f) Limitations of "Shelter in Place"

15) Safe Haven development

- a) Necessity of a safe haven
- b) Considerations for location
- c) The Pressure Plain
- d) Internal controls & influences
- e) External controls & zoning
- f) Testing of Integrity
- g) Importance of "Resilience Planning"

16) Resilience Issues

- a) The reasoning for Resilience
- b) Time line considerations
- c) Environmental controls
- d) Safety
 - i) Ventilation
 - (1) Quality of air
 - (2) Filtration
 - ii) Water and ablutions
 - iii) Sustenance
 - iv) Heating and cooling
 - v) Security internal & external
- e) Information & contact procedures
- f) The need for training and planning

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17) Personal & Group Decontamination

- a) Movement to Decontamination area**
- b) Review of Government advice (mass decontamination)**
- c) Blue light mass decontamination procedures**
- d) Public Procedures and expectations and efficiency**
- e) Emergency self help**
- f) Use of Building facilities**
- g) Use of available assets (external)**
- h) 80/20 rule**
- i) Fleeing arrivals**

18) Planning Requirements

- a) Communication**
- b) Awareness**
- c) Unification**
- d) Resources**
- e) Plan**
- f) Testing**
- g) Audit**