

## Section G

### CBR Building Defence & Occupant Protection

#### *Focus: Employers Facility Managers*

#### Foreword

**This module provides the knowledge to undertake a site specific Terrorist CBR defence plan. The syllabus identifies the hazards and risks, spread and ingress routes of contamination. The defence of building and protection of occupants is the main goal and several plans are explained to assist in site specific plan development.**

#### **1) Health & safety Legislation**

- a) Overview
- b) Specific responsibilities
- c) Necessity

#### **2) General responsibilities and Legal responsibility/ liability**

- a) Legal duties and obligations
- b) Duty to protect employees and personnel/building occupants
- c) Duty to mitigate (insurance policy caveat)
- d) Building Insurance Policy issues
  - i) Policy Limitations
  - ii) Conflicts (multi tenancy)
  - iii) Pool Re
  - iv) Wording and exclusions
  - v) Contamination V damage
  - vi) Clearance time and cost issues
  - vii) Multi tenancy/policy complications
  - viii) Decontamination failure?
- e) Civil & Criminal liabilities
- f) Ramifications of CCA (**civil contingencies act**)

#### **3) Cost & time issues**

- a) Time line to Blue Light assistance
- b) Cost & time line to decontamination
- c) Cost savings from preventable contamination or evacuation
- d) Loss of building –rent /value considerations

#### **4) Business Disruption Awareness**

- a) Hoax or Confirmed Incident cost reduction
- b) Unnecessary evacuation issues
- c) Employee confidence building
- d) Disruption reduction
- e) Productivity protection
- f) Business Continuity issues
- g) Disaster recovery issues
- h) Natural disasters
  - i) Flooding
  - ii) Fire & explosion
  - iii) Horizon scanning

#### **5) Reducing absenteeism**

- a. Confidence building

- b. Awareness
- c. Trust

**6) Associated risks and hazards**

**7) Contamination types, effect and dispersal routes**

- a. CBR & characteristics
- b. Chemical
- c. Biological
- d. Radiological
- e. TICs

**8) General characteristics**

- a. Height & plume direction
- b. Effects of buildings and urban environment
- c. Wind speed and velocity
- d. The rural environment
- e. Swirl & wind turbulence
- f. Pressure Plain

**9) Internal distribution & control factors**

- a. Ventilation ductwork
- b. Laminar and turbulent air flow
- c. Lift action
- d. Kitchen & toilet extracts
- e. Interstitial cavities
- f. Building envelope
- g. Risers
- h. Supply inlets
- i. AHUs
- j. Windows
- k. People

**10) Generic Government Advice (ODPM - DEFRA)**

- a. Review of published documents
- b. Assessments of Generic & Specific plans

**11) Identification & Measurement**

- a. Measuring leakage to prevent ingress
- b. Flow routes (safe haven identification)

**12) Site Specific Enhancement Controls**

- a. External Security
- b. Internal Security
- c. Reception controls
- d. Visitors & site security
- e. Post room events
- f. Mechanical & Electrical controls

**13) Event Planning**

- a. Building assessments
- b. Maximising possible controls
- c. Developing additional controls
- d. Development of Safe Haven
- e. Developing Resilience
- f. Building Log
- g. Asbestos

- h. Coshh
- i. Known hazards
- j. Liaison team

**14) Assisting Blue light responders**

- a. Information details
- b. Personnel affected
- c. Visual commentary
- d. Known facts
- e. Evidence
- f. Route Plans for responders
- g. Containment

**15) Hard Engineering Control assessments**

- a. Improving filtration
- b. Improving site controls

**16) Planning and Soft Engineering**

- a. Localised controls
- b. Activation procedures

**17) Incident Response assessments**

- a. Designated IRT
- b. Equipment & Training
- c. Notification & Response times
- d. Authority to activate plans
- e. Invocation of plans

**18) Failure and Ramifications**

- a. Alert interested parties
- b. Contingency planning
- c. Open forum
- d. Hearts & Minds

**19) Training & Equipment**

- a. Budget & Authority
- b. Surveys
- c. Engineering controls
- d. Training
- e. Equipment
- f. PPE
- g. Audit

**20) Your Day in Court**

- a. Defending your actions
- b. Proving your defence

