CORE CONCEPT

HAZMAT and CBRN Incident Response Training: Detection, Hot/Warm/Cold Zoning and Decontamination

7 – 11 June 2027
London - Central London four-star

CORE CONCEPT

HAZMAT and CBRN Incident Response Training: Detection, Hot/Warm/Cold Zoning and Decontamination

Ref: 1952_29038 **Date:** 7 – 11 June 2027 **Location:** London - Central London four-star **Fees:** 25300 SAR

Introduction:

HAZMAT and CBRN incident response training, covering detection, hot, warm and cold zoning and decontamination, is a 1-week course for civil defence, industrial emergency, fire and rescue and event safety leaders that ends with a HAZMAT and CBRN Scene Response Plan for a case organisation. Many units arrive at chemical, biological or radiological releases without agreed cordons, protection levels or decontamination layouts, so casualties and responders are exposed. Nominees already lead crews or emergency teams, and the course is taught through timed tabletop and field simulations. CoreConcept Training Center delivers this HAZMAT and CBRN incident response course.

Course Objectives:

- Recognise hazardous materials and CBRN incidents from scene indicators, placards, UN numbers and casualty signs before committing crews
- Apply the Emergency Response Guidebook to select response guides and initial isolation and protective action distances
- Establish hot, warm and cold zones, access control points and a scene command post from wind, terrain and detector readings
- Select PPE protection levels A to D and detection instruments matched to the identified or unknown hazard
- Organise mass and technical decontamination corridors, casualty triage and hand-over to receiving hospitals
- Produce a HAZMAT and CBRN Scene Response Plan for a case organisation with roles, equipment and exercise arrangements

Target Audience:

- Civil defence leaders responsible for first-arriving crews, cordons and public protective actions at hazardous scenes
- Industrial emergency response leaders responsible for site release response, gas detection and on-site decontamination
- Fire and rescue supervisors responsible for hazmat entry teams, protective equipment and crew safety
- Event safety and security planners responsible for crowd protection arrangements at venues and mass gatherings
- Ambulance and hospital emergency coordinators responsible for contaminated casualty triage and reception
- Emergency planning leads responsible for joint procedures between fire, police, health and industry responders

CORE CONCEPT

Course Outline:

Day 1: Hazardous Scene Recognition and Responder Risk Baseline

- UN Hazard Classes and Divisions for Scene Identification
- Placards, UN Numbers and NFPA 704 Diamond Reading
- Chemical, Biological and Radiological Incident Indicators at Arrival
- Toxic Exposure Routes and Health Effects on Responders
- Current Unit Capability Review Against Hazmat Scenarios

Day 2: Emergency Response Guidebook, Zoning and Scene Command

- Emergency Response Guidebook Colour Sections and Guide Selection
- Guide for Mixed or Unidentified Cargo at Unknown Scenes
- Initial Isolation and Protective Action Distance Tables Applied
- Hot, Warm and Cold Zone Layout Using Wind and Terrain
- Scene Command Post, Sectors and Access Control Points

Day 3: Detection Instruments, PPE Levels and Decontamination Operations

- Multi-Gas Meters, PID and Radiation Survey Meter Use
- Detector Readings Log and Hazard Confirmation Sequence
- PPE Protection Levels A to D Selection Matrix
- Mass Decontamination Corridor Set-Up for Ambulant Casualties
- Technical Decontamination Line for Entry Teams and Equipment

Day 4: Casualty Triage, Deliberate Releases and Response Failures

- Contaminated Casualty Triage and Treatment Priorities in Warm Zone
- Hospital Notification and Receiving Area Hand-Over Protocol
- Suspected Deliberate Release Scene and Evidence Preservation Liaison
- Biological Incident Indicators and Responder Protection Measures
- Hazmat Response Failure Cases and Lessons Register Review

Day 5: Hazmat Scene Simulation and Response Plan Build

- Timed Simulation of an Industrial Toxic Gas Release
- Timed Simulation of an Unknown Substance at a Crowded Venue
- Zoning, PPE and Decontamination Decisions Recorded From Injects
- Simulation Debrief Using Response Time and Exposure Criteria
- HAZMAT and CBRN Scene Response Plan Completion and Peer Review

Skills You Will Gain:

- Hazardous Materials Recognition
- Emergency Response Guidebook Navigation
- Scene Zoning and Cordon Control
- Gas and Radiation Detection
- Protective Equipment Selection
- Decontamination Corridor Management
- Contaminated Casualty Triage
- Hazmat Simulation Debriefing

Why Attend This Course:

- Deliver a HAZMAT and CBRN Scene Response Plan to the chief emergency officer and safety lead for adoption by the case organisation
- Decide zone boundaries, entry protection levels and the need for mass decontamination from detector readings and guide tables
- Avoid crew exposure, cross-contamination of hospitals and delayed cordons at chemical, biological or radiological scenes
- Brief crews and partner agencies on zoning drills, detector checklists and decontamination layouts from the course aids

Conclusion:

Back at work, the participant presents the HAZMAT and CBRN Scene Response Plan to the chief emergency officer, the safety lead and partner health services. Duty commanders use it to set cordons, choose protection levels and open decontamination corridors at the first sign of a release, and hospitals use it to prepare for contaminated casualties. After the first drill or real call-out under the plan, the unit should review zone set-up times, detector reliability, decontamination throughput and whether hospitals received casualty notifications in time.

Frequently Asked Questions FAQ:

What should participants know before the HAZMAT and CBRN incident response course?

Participants should already lead crews, site emergency teams or event safety arrangements and know basic breathing apparatus and first aid practice. No chemistry degree is needed. Bringing current hazmat procedures, equipment lists or drill reports helps them apply the simulations to their own unit.

How does HAZMAT and CBRN incident response training differ from a chemical spill or emergency planning course?

It covers what responders do at the scene: identifying the hazard, zoning, protective equipment, detection, decontamination and triage. Spill courses cover storage and containment inside facilities, and planning courses cover off-site plans and coordination centres rather than the incident ground.

Why are hot, warm and cold zones used in HAZMAT and CBRN incident response?

Zones control who may enter where and with what protection. The hot zone holds the release, the warm zone holds the decontamination corridor and the cold zone holds command and support, so contamination stays contained and responders are accounted for.

What do participants take back from the HAZMAT and CBRN incident response course?

Participants take back a HAZMAT and CBRN Scene Response Plan for a case organisation, with recognition checklists, guide table use, zoning layouts, a PPE selection matrix, decontamination corridor designs, triage and hospital hand-over steps and a simulation debrief record.