

## R & N IN CBRN - Radiological & Nuclear Safety training in UAE

### R & N in CBRN

#### Radiological and Nuclear Safety Training for UAE Emergency Services, customs & similar

Ionactive Consulting Limited (UK), working in association with RNA Safety International (UAE), is offering radiation safety courses aimed specifically for the needs of UAE.

Ionactive is a successful and leading provider of radiation safety courses in the UK – supporting the UK emergency services.

#### R & N in CBRN

The main objective of the course is to provide radiation safety training (**radiological & nuclear**) to the standard of a **Radiation Protection Officer (RPO)**, but biased to the needs of the emergency services and other UAE government organisations e.g. Ministry of Interior, the Critical National Infrastructure Authority (CNIA), Customs & Border Control.

The course is especially useful for those dealing with radioactive source security, monitoring for maliciously placed radioactive sources, terrorist events using radioactive material (e.g. the 'dirty bomb'), transport accidents involving radioactive material and similar.

The course also provides the necessary contingency planning knowledge which will assist emergency services & government organisations to deal with the aftermath of a terrorist event or transport accident involving radioactive or nuclear materials. Managing lost and stolen radioactive sources is also covered.

***The course is designed to meet current IAEA standards and local UAE regulations. The course will meet the requirements of FANR-REG-23 'radioactive source security' & FANR-REG-24 'Basic Safety Standards for Facilities and Activities involving ionising radiation other than in Nuclear Facilities'***

The course will be delivered by Mark Ramsay, a Radiation Protection Adviser (RPA, Qualified Expert), certificated in the UK. Mark Ramsay is RPA to some of the largest users of Category 1 radioactive sources, a nuclear reactor, and other users in medicine, industry, research and education.



#### In association with RNA Safety International

- **FANR Compatible**  
Reg-23  
Reg-24  
IAEA  
UK Best Practice
- **R & N in CBRN**  
Fire & Rescue Service  
Police  
Ambulance  
Customs  
Ports



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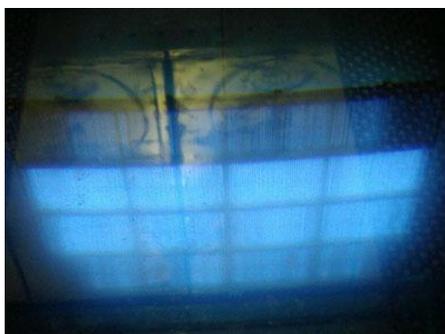
Skype: rnasafety

### The R & N in CBRN Course

The main course elements are shown in the table on the right. The course is run over three days and there is ample opportunity for group discussions and exercises. A detailed colour laser safety course binder is included.

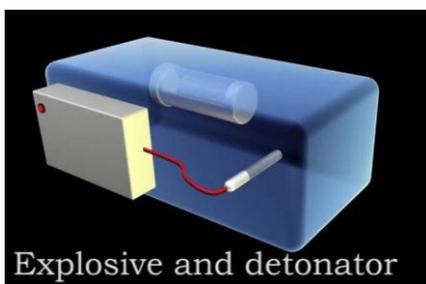
**No prior radiation safety knowledge is assumed.**

An aim is to ensure the delegate gains a very good understanding of all the types of radioactive sources that might be found in the workplace. Typical sources found in industrial and medical sectors are covered on Day 1

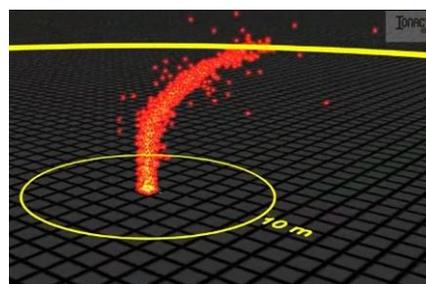


‘Blue glow’ from highly active Co-60 sources stored under water

The course uses a variety of training methods including lecture, group exercises and multi-media. Much of the training uses rich colour animations to explain key points.



Explosive and detonator



Multi-media animations of radioactive ‘dirty bomb’

The course includes a test at the end of day 3. Successful completion of the test is awarded with a ‘Radiation Protection Officer’ Certificate. This is issued from the UK and traceable to the RPA certificate issued by RPA 2000 (under the UK Health & Safety Executive). The validity of the certificate lasts 3 years.

[www.ionactive.co.uk/contingency\\_training.html](http://www.ionactive.co.uk/contingency_training.html)

### Course Summary

#### Day One

- Nature of Ionising Radiation
- CBRN - The Radiological & Nuclear Hazard
- Radiation Protection Principles
- Internal / External hazards
- Biological Effects

#### Day Two

- CBRN Radiation Monitoring Equipment
- Communicating Radiation Risk to the Public and Colleagues
- Tabletop Exercise on Hazard, Risk and Controls
- UAE Radiation Protection Legislation in a CBRN context

#### Day Three

- Radioactive Materials Transport - how this applies to CBRN
- Decontamination
- The radiological threat
- Source security
- Border monitoring for radioactive materials
- Table Top Exercise: ‘*The Dirty Bomb*’