

Radiation Protection Officer Training in UAE – Medical Sector

Medical Applications

Radiation Protection Officer (RPO) & Radiation Safety Awareness Training for Medical Sector uses of ionising radiation located in the United Arab Emirates (UAE)

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 and beyond – supporting UK medical sector.

Medical Applications – Radiation Safety Course

The course objective is to provide radiation safety training to the standard of a **Radiation Protection Officer (RPO)**, for those working with medical x-ray diagnostic systems, radionuclide diagnostics (i.e. PET), radiotherapy and similar. The course can also provide radiation safety awareness training for those not required to qualify at the RPO level.

The course is especially useful for those operating and supervising the use of medical equipment in hospitals, clinics and other medical related areas. A range of equipment types and techniques are examined including x-ray (film, fluoroscopy, mammography, CT), radionuclide based (PET, Tc-99m, In-111) and radiotherapy (high energy accelerators and radioactive sources).

The course examines the safety rather than the clinician aspects of medical uses of ionising radiation. The course is also ideal for those working at supervisor, management and licensee level.

The course complies with IAEA standards and UAE FANR-REG-24 ('Basic Safety Standards for Facilities and Activities involving ionising radiation other than in Nuclear Facilities').

The course is delivered by Mark Ramsay, a Radiation Protection Adviser (RPA, Qualified Expert), certificated in the UK. Mark is RPA to major industry leading suppliers of medical related equipment including Philips Healthcare and Elekta Oncology.



**In association
with RNA Safety
International**

- **FANR Compatible**
Reg-24
IAEA
UK Best Practice
- **Medical applications**
Diagnostics
CT, PET, X-ray
Ext. Radiotherapy
Brachytherapy
Work area safety



Contact Details

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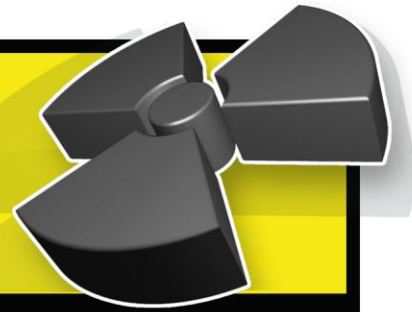
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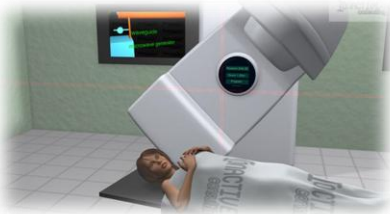
Radiation Protection Officer Training in UAE – Medical Sector

Medical Sector – RPO & Safety Awareness

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.

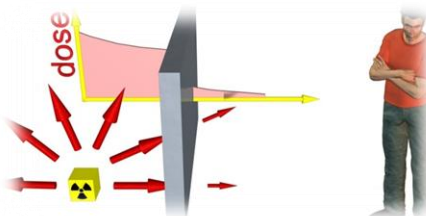
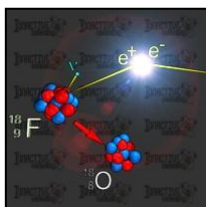
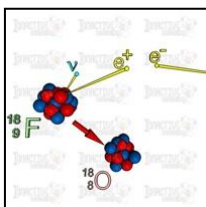
No prior radiation safety knowledge is assumed

An aim is to ensure the delegate gains a very good understanding of medical **safety** related aspects of ionising radiation source use – ensuring protection of **employees** and **members** of the public. Although patient safety is covered in broad terms, their medical exposure is the responsibility of the Radiological Medical Practitioner (RMP) rather than the RPO.



Learning the nature of medical related ionising radiation sources

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



Understanding key concepts of protection from ionising radiation

A test is taken at the end of day 3 – successful completion is awarded by an awareness level, or RPO level certificate, depending on which sections of the test have been completed.

The certificate 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

Day One

- Nature of Ionising Radiation
- Units & fundamentals
- Medical radiation sources
- Background radiation
- Radiation doses (medical)
- Biological effect / Dose limits
- Protection of women

Day Two

- Practical radiation protection (time, distance & shielding)
- Medical related accidents and incidents involving ionising radiation
- Justification, optimisation and limitation for medical uses of ionising radiation
- Radiation detection & measurement
- Table top exercises

Day Three

- Regulation (FANR-REG-24)
- Radiation safety management
- Local rules / risk assessment
- Critical examination (medical)
- Role of the RPO / employee
- Comforters and Carers
- Putting principles into practice in the workplace