

Radiation Protection Officer Training in UAE – Industrial Uses

Industrial Uses of Ionising Radiation

Radiation Protection Officer (RPO) & Radiation Safety Awareness Training for Industrial 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 industrial sector.

Industrial 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 industrial radiography (NDT), radiometric gauges etc. 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 industrial sources in NDT, industry, process control, quality assurance and other industrial related areas. A range of equipment types and techniques are examined including radioactive and x-ray industrial radiography (NDT) systems, radiometric gauges, sterilisation, process control in the oil / gas industry and similar.

The course examines the safety rather than the measurement aspects of industrial 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 users of industrial uses of ionising radiation including FMC (oil / gas / NDT), Imperial College London (Nuclear Reactor), Isotron / synergy healthcare (Gamma sterilisation), Smiths Detection (defence related).



**In association
with RNA Safety
International**

- **FANR Compatible**
Reg-24
IAEA
UK Best Practice
- **Industrial Uses**
NDT applications
Other Radiography
Radiometric gauges
Quality assurance
Oil / Gas industry
Process control



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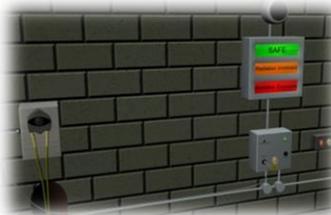
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Industrial Uses – RPO & Safety Awareness

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.

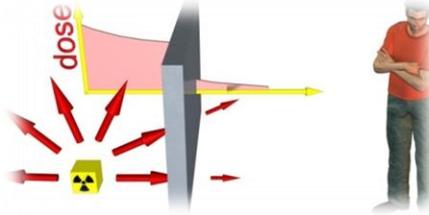
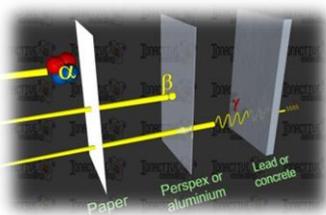
No prior radiation safety knowledge is assumed

An aim is to ensure the delegate gains a very good understanding of industrial **safety** related aspects of ionising radiation source use – ensuring protection of **employees** and **members** of the public. Although industrial techniques are covered in broad terms, the course concentrates on the radiation protection aspects of industrial source use.



Learning the nature of industrial 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
- Industrial radiation sources
- Background radiation
- Radiation doses (Industrial)
- Biological effect / Dose limits
- Protection of women

Day Two

- Practical radiation protection (time, distance & shielding)
- Industrial related accidents and incidents involving ionising radiation
- Justification, optimisation and limitation for industrial 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 (industrial)
- Role of the RPO / employee
- Contingency planning
- Putting principles into practice