

# UK Radiation Safety Training

## Radiation Protection Supervisor (RPS)

(Radioactive materials and x-rays)

2020

*See website for 2020 dates*

## Scope

This 2-day residential course is designed for Radiation Protection Supervisors (RPS). Whilst the course is primarily intended for the new RPS it will be equally useful as a refresher (i.e. those who have not received training in the last 3-5 years). In designing this course, we have taken a different approach to other course providers by training the RPS regardless of their specific areas of work (e.g. sealed sources, x-rays, radiochemical etc). Whilst this approach may not be suitable for all, we believe the commonality provides a better grounding for the RPS in the longer term and enhances delegate interaction and mutually beneficial learning.

We also recognise that whilst the role of the RPS is defined in the Ionising Radiations Regulations 2017, the workplace RPS is usually expected to do much more. For example, those working with closed or open sources will often be required to keep records meeting the requirements of registrations, authorisations or permits (Environmental Permitting Regulations 2016 Radioactive Substances Act 1993 &). Those working in areas containing x-ray equipment will often be the best placed to supervise contactors during critical examinations. Others may need to organise transport of radioactive materials.

This course therefore meets the RPS core knowledge requirements specified by the HSE, but much more besides. Our experience as Radiation Protection Advisers to many different types of client reveals common issues which we aim to discuss during this course. These include helping the RPS to gain a thorough understanding of the purpose of local rules and the actual duties they are required to undertake.

## Radiation Safety Training for all?

We believe that the basics of an RPS core syllabus can be taught to all, regardless of the types of ionising radiation sources being used. However, an RPS who is involved exclusively with x-rays will have little to do with radioactive substances. Despite this, a thorough foundation in all the basic principles of radiation protection, regardless of source type, is included to reinforce learning. In addition, our unique personalised training notes ensure that each delegate is also aware of specific radiation protection issues relating to their own area.

## Course Summary

### Day One

- Nature of Ionising radiation
- Radiation Protection Principles
- Internal and external radiation hazards
- Practical Radiation Protection
- Risk Assessment
- Radiation Protection Management

### Day Two

- Radiation Protection Legislation
- Duties of the RPS
- Local Rules
- The RPA & Radiation Employer
- Contingency Planning
- Test and certificate

## Who should attend?

This course is open to persons who will be appointed as an RPS in the following areas:

- Unsealed radionuclides (e.g. laboratory-based research or teaching work)
- Sealed radioactive sources (e.g. radiometric gauging, calibration etc, sterilisation, quality control, medical)
- X-ray sources (e.g. XRF / XRD, radiography, security inspection, quality assurance, medical etc)

Whilst we place no restrictions on attendance there may be circumstances where this course is not wholly suitable. This will normally be apparent where particularly specialised uses of ionising radiation take place (e.g. x-ray medical radiography or some types of nuclear medicine). However, we have found that many employers send their medical related delegates on our course due to our excellent course reviews and feedback.

In addition, we have many delegates from the industrial radiography sector on our course – however note the course is not designed to specifically meet NDT certification (but it meets the radiation safety requirements).

The bottom line: If you are after ‘RPS Training’ then this course will be for you.

## Aims of the course

The aims of the course are to:

- Understand the nature of ionising radiations, their effects and quantification of harm
- Understand radiation protection principles and the importance of the ALARP principle.
- Acknowledge and appreciate the external and internal radiation hazard.
- Become familiar with practical radiation protection techniques (for all source types).
- Use quantities for measuring dose, dose rate and exposure.

The Ionising Radiations Regulations 2017 require that employers appoint one or more of their employees as Radiation Protection Supervisors for the purposes of securing compliance with local rules.

## Typical delegates

- Theatre nurses / PET
- Museum staff
- Shielding designers
- Security industry
- Detector manufacturers
- Research & teaching
- QA / NDT / Niton (XRF)
- Oil and gas industry
- Local government
- School teachers
- Aerospace
- Clothing manufacture
- Airport / Dock / Cargo

- Be aware of the range of active and passive radiation / contamination monitoring techniques available for assessing personal and environmental exposure.
- Know how to choose the correct technique for your area of work.
- Understand and use the principles of risk assessment to assist in assessing exposure and its significance and relevance to specified dose limits.
- Be aware of the legislation which underpins radiation protection and how the RPS fits into the regulatory framework (and where they do not).
- Be familiar with radiation protection management procedures (e.g. designation of areas, written systems of work, classified radiation workers).
- Know when local rules are required, what they should contain and who should write them.
- Understand the role of the RPS (what you need to do and what you invariably end up doing).
- Appreciate the importance of good record keeping.
- Understand the role of the RPA (and how to use them).
- Understand the responsibility of the radiation employer.
- Recognise the implications of a radiation incident and appreciate the importance of contingency planning.

We encourage a friendly group atmosphere and support discussion between delegates. This is the best way to learn from each other and therefore we encourage delegates to attend from all areas of ionising radiation source use.

## Safety Training Programme

The programme will be altered to reflect the needs of the delegates who attend. However, the course will generally run as follows:

**Day 1** 1000 – 1700

**Day 2** 0830 – 1600

## Refreshments

We understand our minds work best when suitably fed and watered! In addition to the refreshment and comfort breaks; tea / coffee, water, cordials, fruit and biscuits will be available

throughout the day. A three-course buffet lunch will also be served. Please advise at time of booking if there are any dietary requirements or other special needs.

Dinner will be served from 1900 on the first night of training and breakfast from 0730 on the morning of the second day of training.

## Course test and certification

We will provide a written test at the end of the course. The test is taken after the course by email (and is of course open book). We believe this allows the delegate time to absorb the material before thinking about taking a test. An achievement certificate is awarded on successful completion of the test.

## Accommodation

Single room en suite accommodation is provided. A three-course dinner will be served in the evening of day 1 and a full English breakfast the following morning. Three course lunch is provided each day. Free wireless broadband is also available. Free on site carparking is available.

## Administration & Fees

**Dates:** See website for latest dates for 2020

**Course Ref:** UK RPS Training

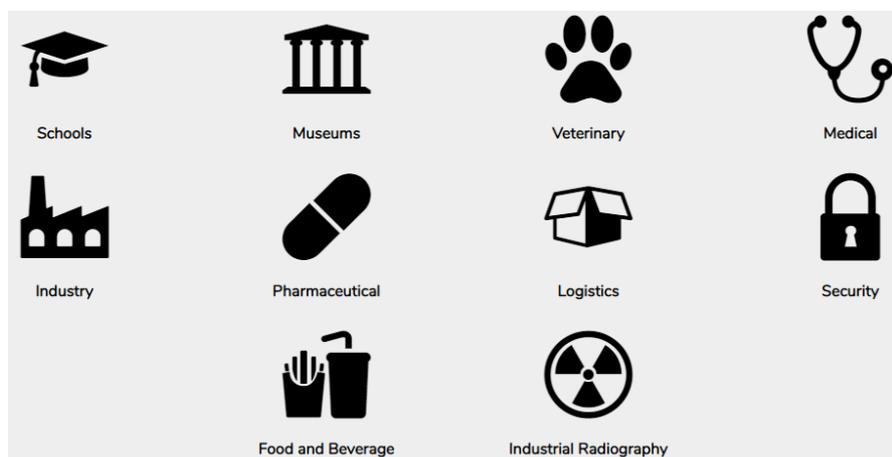
**Places available:** 25

**Course fee:** £575 + VAT (£115) = £690.00

**Venue:** Missenden Abbey Conference Centre, Great Missenden, Buckinghamshire, HP16 0BD

Register interest on line at: [www.ionactive.co.uk/training/rps-training](http://www.ionactive.co.uk/training/rps-training)

Course payment is available by bank transfer, cheque (made payable to 'Ionactive Consulting Limited') or by credit card.



## Terms and conditions

These terms and conditions are supplementary to those provided on our website (see our website for more details and our privacy policy)

1. The course will be held on the date indicated subject to sufficient response. If all places on the course become full, we may arrange an additional course in the same month.
2. The course fee includes all refreshments, lunch, an evening meal, hotel accommodation for one night and breakfast on day 2. The venue has free parking.
3. Payment of fees must be made in advance of this course, either by a cheque (payable to 'lonactive Consulting Ltd'), by bank transfer (details supplied after confirmation of booking), or by credit card. Bookings will therefore be held as provisional until all fees have been paid. We will issue an invoice and can accept a purchase order.
4. Provisional bookings within one week of the course commencing may not be held until payment is received.
5. Cancellations of course places must be made in writing by email. Fees will be refunded where the cancellation is made up to 14 days prior to the course starting. Cancellations made within 7 days of the course commencing will not be refunded unless we can find a suitable replacement. We will accept substitution of places held on this course.
6. All course material, notes and multi-media presentations remain the property of lonactive Consulting Ltd who retains copyright. This material must not be copied in whole or in part other than for personal study of the delegate attending the course.
7. Our courses cannot be recorded, visually or audibly, without the express permission of lonactive Consulting Ltd.
8. We retain the right to make appropriate alterations to the timetable and course content specified in the course programme. A refund of fees would be made if we were required to cancel a course and this shall be the limit of our liability.

