

## Introduction to Environmental Surveillance and Dose Assessment



14 - 16 November 2012  
CRCE  
Scotland

Health Protection Agency  
Centre for Radiation, Chemical and Environmental Hazards  
155 Hardgate Road Glasgow G51 4LS  
Scotland

### Course Contents

This three-day course is intended to provide an introduction to the theory and practice of environmental surveillance and dose assessment. It aims to

- provide a basic understanding of radioactivity and its significance in the environment and foodstuffs
- discuss the national and international influences that promote monitoring and surveillance programmes
- explain the movement of radioactivity through the environment
- define the process needed to establish a meaningful programme including a discussion of the role of habit surveys and modelling
- demonstrate sampling methods, sample preparation and handling
- prepare laboratory and counting facilities and maintain quality control and assurance
- examine the reporting and interpretation of monitoring data, dose assessments and associated uncertainties

### Delegates

The course is aimed at non-specialist scientists who may have an interest in the monitoring of their environment or have direct contact with the nuclear industry and therefore need to have some understanding of environmental surveillance and the interpretation of data. No prior knowledge of environmental surveillance is assumed, and the course will be delivered as far as possible in a qualitative way, although some topics will require the use of basic mathematics. Participants will be expected to have a science-based degree or equivalent qualification, or relevant experience and knowledge. The course will not be examined.

### Further Information

Maps and directions for Glasgow can be found on the HPA website at [www.hpa-radiationservices.org.uk/lab\\_services/](http://www.hpa-radiationservices.org.uk/lab_services/)

CRCE Scotland  
Tel +44 (0) 141 440 2201  
Fax +44 (0) 141 440 0820  
email [hpascotland@hpa.org.uk](mailto:hpascotland@hpa.org.uk)

For general information about any other radiation protection matters contact

Press and Information Group  
Health Protection Agency  
Centre for Radiation, Chemical and Environmental Hazards  
Chilton Didcot Oxon OX11 0RQ

Tel +44 (0) 1235 822742  
email [chiltoninformationoffice@hpa.org.uk](mailto:chiltoninformationoffice@hpa.org.uk)  
website [www.hpa.org.uk/radiation](http://www.hpa.org.uk/radiation)  
website [www.hpa-radiationservices.org.uk/lab\\_services/](http://www.hpa-radiationservices.org.uk/lab_services/)

### Outline Programme

- Basic concepts
- National and international standards and regulatory frameworks
- Sources of radioactivity in the environment
- Transport mechanisms of radioactivity through the environment
- Habit data and exposure pathways
- Methods of assessing doses
- Definition and set-up of monitoring programme
- Sampling and measurement
- Practical requirements
- Quality assurance
- Emergency response

### Fee

£1135 per delegate. Morning coffee, buffet lunch and afternoon tea will be included.

### Lecturers

The presenters will be staff from the Health Protection Agency, all of whom are specialists in the topics covered by the course.

### Enquiries

Visit our dedicated website providing comprehensive information on all our training courses and other services, together with online booking and payment.

Administration/booking enquiries should be made to the Training Administrator, Glasgow  
Tel +44 (0) 141 440 2201  
Fax +44 (0) 141 440 0820  
email [hpascotland@hpa.org.uk](mailto:hpascotland@hpa.org.uk)

Technical enquiries should be made to the Course Manager, Keith Bulloch.  
Tel +44 (0) 141 440 6814  
Fax +44 (0) 141 440 0820  
email [keith.bulloch@hpa.org.uk](mailto:keith.bulloch@hpa.org.uk)

### Summary of Booking Conditions

Invoices will not normally be issued for training course places and purchase orders are not acceptable in lieu of payment. If sent they will be accepted for information purposes only.

Unless otherwise stated, there will be no refund of the course fee for cancellations received within 10 working days of the course start date. For courses where this period is 5 weeks this will be clearly stated. For all other cancellations, the course fee will be refunded, less an administration fee.

Full HPA Terms and Conditions apply and can be found at [www.hpa-radiationservices.org.uk/lab\\_services/](http://www.hpa-radiationservices.org.uk/lab_services/)

### Introduction to Environmental Surveillance and Dose Assessment

Please book me on the following Course:

14 - 16 November 2012 (Course Reference No. TC4/1227)

- I enclose a cheque for £1135 (total)  
(please write Course Reference No. on reverse of cheque)
- I will pay by credit card  
(please contact the Training Administrator)

Title
Surname
Forename(s)
Employer and address
Postcode and country
Nationality
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email
Alternative correspondence address
Postcode and country
Please state any dietary or other special needs
I confirm that I have read and agree to the Full Terms and Conditions of booking available on the HPA website
Signed _____ Date _____
Print name
Course Reference No. TC4/1227