

# Certificate of Competence in Environmental Noise Management

Noise is an area of Environmental Health that is receiving growing attention and is the subject of increasing legislation. Progress is being made in improving understanding of the technologies that can be used to monitor and control noise in our environment.

This IOA accredited short course will provide an introduction to noise within the context of environmental protection. Successful completion of this course will enable an officer to carry out competently environmental noise monitoring as specified in relevant legislation and Codes of Practice such as BS 4142.

The course will be held at the University of Birmingham for four days, 6th - 9th May 2014 with the IOA written examination on 16th May 2014.

## Course fact file

**Type of Course:** Continuing professional development

**Study Options:** Full time

**Duration:** 4 days

**Places Available:** 12

**Start date:** 6th May 2014

## Contact

Valerie Walker, Short Courses Secretary  
Division of Environmental Health and Risk Management  
The University of Birmingham, Edgbaston  
Birmingham  
B15 2TT

Tel: 0212 414 3077  
Fax: 0121 414 3078

## Details

This course is particularly suitable for technical officers employed in Environmental Health Departments and in private environmental consultancy companies who have limited or no previous experience in noise control. The course may also be useful for qualified staff requiring revision and updating in this field. Ethos may consider this short course as contributing to their Continuing Professional Development, and a certificate of attendance can be provided. Participants will be required to be able to use logarithms, manipulate formulae and use a scientific calculator.

The course will be a combination of theory, case studies and practicals, with the emphasis very much on the practical aspects of environmental noise assessment and control.

Examinations are set by the Institute of Acoustics and held at the University of Birmingham.

### Course Tutor

Mr Alan Whitfield MSc AMIOA, Senior Lecturer in Environmental Health, University of Derby

### Lecture sessions

All practical sessions will give the student the opportunity to practice the theory from the morning lectures and to practice calculations. Additional technical support will be available when needed to help students with the use and operation of the sound equipment.

Day 1 - am  
10am - 12.30 hrs  
Lecturer: Alan Whitfield  
Introduction and welcome to course, to include overview of course objectives. Basic acoustical concepts and noise units, propagation of sound in air and use of barriers to control noise.

Day 1 - pm  
13.30 - 17.00 hrs  
Lecturer: Alan Whitfield  
Practical session to include:  
Instrumentation for environmental noise  
Introduction to the basic functions of the sound level meter (SLM).  
Distance from source practical to demonstrate inverse square law with students to perform calculations

Day 2 - am  
09.30 - 12.30 hrs  
Lecturer: Alan Whitfield  
The mechanism of hearing and the response of the human ear to sound. A-weighting and octave bands. Statistical and energy based measurement parameters and which to use.

Day 2 - pm  
13.30 - 16.30 hrs  
Lecturer: Alan Whitfield  
Practical session to include:  
Road traffic noise monitoring exercise (The tick box practical).  
Noise source monitoring to observe effects of A-weighting and use of octave band analysis.

Day 3 - am  
09.30 - 12.30 hrs  
Lecturer: Alan  
Statutory control of environmental noise (excluding BS 4142 and PPG 24). (Particular emphasis on the control of construction site noise and use of relevant parts of BS 5228).

---

Day 3 - pm  
13.30 - 16.30 hrs  
Lecturer: Alan  
Whitfield

Practical session to include:  
Railway noise assessment with calculation of LAeq from the SEL.  
Use of the SLM for evaluation of construction site noise and/or impulse noise.

---

Day 4 - am  
09.30 - 12.30 hrs  
Lecturer: Alan  
Whitfield

Practical use of BS 4142 and PPG 24 and information needed for reports.

---

Day 4 - pm  
13.30 - 16.30 hrs  
Lecturers: Alan  
Whitfield

Practical session to include:  
BS 4142 noise assessment of industrial noise source for a planning scenario.

---

Day 5 - am  
09.30 - 12.30 hrs  
Lecturer: Alan  
Whitfield

Noise generation and control, examination preparation and student evaluation.

---

Day 5 - pm  
13.30 - 16.30 hrs  
Lecturer: Alan  
Whitfield

The practical assessment will take place in the afternoon of the final day of the course.

---

Friday 16th May 2014 IOA Written Examination  
14.00 - 16.30 hrs

---

## Related links

[Division of Environmental Health and Risk Management \(/research/activity/environmental-health/courses/index.aspx#dehrm\)](#)

[School of Geography, Earth and Environmental Sciences \(/schools/gees/index.aspx\)](#)

## Fees and funding

£1,050 per candidate

The all-inclusive fee of £1050 includes the Registration and Examination fee for the IOA, a buffet lunch and tea/coffee in the morning and afternoon. (Please note accommodation is not included in this fee).

## How to apply

Please complete the [registration form \(13KB\) \(/Documents/college-les/gees/Courses/ccenm-reg-form.pdf\)](#) and return it with the tuition fee by **11th April 2014** to:

Valerie Walker, Short Courses Secretary  
Division of Environmental Health and Risk Management  
The University of Birmingham, Edgbaston  
Birmingham  
B15 2TT  
Tel: 0212 414 3077  
Fax: 0121 414 3078

Please note a limited number of 12 places are available and will be allocated on a first come first served basis.

---

## Learning and teaching

The course will be a combination of theory, case studies and practicals, with the emphasis very much on the practical aspects of environmental noise assessment and control.

---

## Professional accreditation

Accredited by the Institute of Acoustics (IOA)

---

