Hydrophone Measurement Course

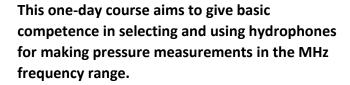
Precision Acoustics Ltd

One day course

Practical hands-on teaching

Maximum 4 delegates

In-house at Precision Acoustics lab



The emphasis is on practical skills and approximately 50% of the time will be spent in the measurement laboratory. The maximum number of delegates is four, giving plenty of opportunity to develop "hands-on" skills. Lectures and laboratory work will focus on hydrophones manufactured by Precision Acoustics Ltd, but the material used will be of more general applicability. A majority of the laboratory work will use a submersible single-element transducer and there will also be an opportunity to use linear array transducers attached to a commercial ultrasound scanner.

Venue

Precision Acoustics Ltd, Hampton Farm Business Park, Higher Bockhampton, Dorchester, Dorset, DT2 8QH

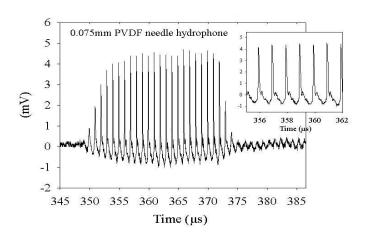
Cost

£350.00 + VAT

Application form

Available on the Precision Acoustics website:

www.acoustics.co.uk/CourseApplication



Course content includes:

Introduction

A brief introduction to Precision Acoustics, the tutors and the other delegates.

Hydrophone Selection

The basic criteria governing selection of the most appropriate hydrophone for a particular application will be presented, including; CW vs. pulsed waveforms, membrane vs. needle devices, sensitivity, element size, spatial averaging, frequency response and directivity.

Lab Sessions

Opportunity to put some of the procedures into practice.

- Set up and Basic Measurements
- Measurement of Acoustic Parameters
- Methods for using hydrophone calibration data
- Ultrasound Scanners

Ultrasound Scanner Measurements

Discussion of issues relevant to measurement of acoustic output from ultrasound scanners and will cover the following topics: beam geometry, triggering, scanner controls affecting acoustic output, locating the beam maximum and measurement of temporal average quantities.

