

## Introduction:

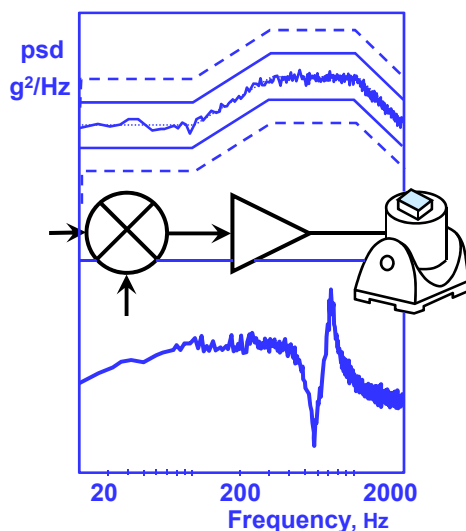
This course provides an introduction to the technology of vibration testing and outlines the principal features of typical vibration test programmes. Emphasis is placed on the practical aspects of the subject and only the essential theory is covered.

The course will include the use and development of test equipment for the artificial generation and measurement of appropriate vibration environments. Instruction will be given in data analysis and interpretation in relation to technical specifications.

## Participants:

- Test engineers working in environmental test laboratories.
- Those who have recently been recruited from other departments or branches of engineering.
- Engineers concerned with reliability and type approval testing as part of design assurance work.

No prior knowledge of Vibration Testing is required. Mathematics will be kept to the minimum necessary for an understanding of the subject.



## Outline syllabus:

Basic vibration concepts  
Effects on service equipment  
Electromagnetic shaker characteristics  
Vibrator power supplies  
Sine and random signals  
Vibration fixture design  
Control systems  
Measurement and recording techniques  
Signal analysis techniques

## Demonstrations:

Practical demonstration sessions will be held each day to reinforce concepts introduced in the lectures. E/M shaker characteristics, vibration control strategies and analysis pitfalls will be included.

## Location:

The course will be held at the **Novotel Milton Keynes**. Special discount rates for CPD Dynamics course delegates are available. If you need overnight accommodation, please book directly with the hotel.

## Course fee:

The short course fee of £465 includes tuition, course notes, lunches, refreshments and a course dinner on 18 January 2012 (excludes overnight accommodation).

## Enquiries:

For further information contact:

**Andy Tomlinson,**  
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4 Burns Close, Newport Pagnell,  
MK16 8PL  
U.K.

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Web : <http://www.cpd-dynamics.co.uk>

**APPLICATION FORM**  
(Photocopies acceptable)

**Vibration Testing 18 - 19 January 2012**

Please complete in BLOCK CAPITALS.

I wish to attend the above course to be held at the **Novotel Milton Keynes**

Surname \_\_\_\_\_ Title \_\_\_\_\_

Forename \_\_\_\_\_

Job Title \_\_\_\_\_

Organisation /Company \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Telephone \_\_\_\_\_ Fax \_\_\_\_\_

E-mail \_\_\_\_\_

**Course Fee:** includes tuition, course notes, lunches, refreshments and the short course dinner on Wednesday 18th January 2012.

Please reserve \_\_\_\_\_ places @ £465

TOTAL £ \_\_\_\_\_

Please tick

Payment enclosed by cheque made payable to CPD Dynamics Ltd

Invoice my company quoting our Order Number \_\_\_\_\_

Invoice to be sent to:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Signature \_\_\_\_\_

**Please return this completed form to:**

**Andy Tomlinson**  
**CPD Dynamics Ltd, 4 Burns Close,**  
**Newport Pagnell, Bucks, MK16 8PL, UK**

**Tel: 01908 611397**

**Mobile: 07958 543996**

**Fax: 01908 216069**

**Email: andy@cpd-dynamics.co.uk**

Registration can only be confirmed if accompanied by payment and/or an official purchase order number. For provisional bookings please telephone in advance. Whilst cancellations or alterations are rare, we reserve the right to make such alterations if necessary. Cancellations made by delegates less than 14 days prior to the course will be liable to a 50% charge; less than 7 days a 100% charge. Substitutions can be made at any time. Please await confirmation of your reservation before making bookings for travel and accommodation.