

## Introduction:

Modern sophisticated equipment is often required, not only to survive, but to operate to a defined standard under adverse climatic conditions. To demonstrate the survival capability and reliability of equipment it is necessary to simulate these conditions in the laboratory.

This two-day course provides a practical introduction to Climatic Testing and will cover general principles, test facility requirements and practical test procedures.

The design aspects of climatic test chambers will be covered to the depth necessary for the user to fully understand their operation.

An important part of equipment usage is the measurement, recording and control of the various parameters, with emphasis on calibration, accuracy, repeatability and uncertainty of measurement.

Comprehensive notes covering all the lectures will be provided and these serve as a valuable reference after the course.

## 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 Climatic Testing is required. Mathematics will be kept to the minimum necessary for an understanding of the subject.

## Outline Syllabus:

Basic atmospheric conditions  
Temperature effects  
Testing regimes and chamber considerations  
Absolute and relative humidity  
Measurement of temperature  
Measurement of humidity  
Chamber control strategies  
Heating and refrigeration plant  
Pressure and altitude testing  
Solar radiation  
Measurement uncertainty

## 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 15 February 2012 (excludes overnight accommodation).

## Enquiries:

For further information contact:

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

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

**APPLICATION FORM**  
(Photocopies acceptable)

**Climatic Testing 15 - 16 February 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 15th February 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.