

Training Invite

INTRODUCTION TO VIBRATION TESTING

You're Invited to a Training Program on
INTRODUCTION TO VIBRATION TESTING

By

TREVOR HARRISON,

Customer Training Manager,

LDS Test & Measurement Limited, UK

On **15th & 16th** July 2009 at Hyderabad

On **20th & 21st** July 2009 at Pune

On **23rd & 24th** July 2009 at Bangalore

Jointly Organized By



An introduction to Vibration Testing ...

A Two Day Course for Vibration Test Engineers and Technicians

Modules Include...

- Sine and Random Vibration Theory
- Terminology Used, Resonance and Accelerometers
- Practical Solution to Common Problems, Basic Fixture Designs
- Vibration Control Techniques, Shock and SRS

Learning Content

The course emphasizes the practical aspects of vibration testing - the realities, the problems encountered and the common mistakes which can be made.

The training contents include:

- The electrodynamic shaker, theory and limitations.
- Purpose for vibration and shock testing
- Sine theory, sine testing and control methods
- Random theory, terminology, methods and definitions
- Mixed mode, SRS and classical shock testing techniques
- Practical fixture design
- Correct use of accelerometers and measurement techniques
- A practical guide to vibration testing



Training Approach

The following is a typical agenda for the timeline of the meeting. The exact agenda might vary if agreed upfront between trainer and attendees.

The course is structured as:

Day One

- Course overview
- Capabilities and Limitations of the electrodynamic shaker
- Introduction and History of vibration testing
- Requirements to test a product
- Basic Sine theory, parameters, terminology and limits
- Sine control methodology
- Basic Random theory, parameters, terminology and limits
- Random control methodology
- Resonance frequency, transfer functions and dynamic range
- Control parameters for shock and SRS
- Practical guide to using Rigs and Fixtures
- Control methods: averaging, extremal, notching and Control solutions
- Vibration standards and specifications

Day Two

- Using Accelerometers, measurement accuracy and uncertainties
- Advanced testing TTH, LTH and mixed mode
- A Practical guide to vibration testing
- Practical demonstrations and interpreting the specification
- Programming and control parameters, hands on session
- Running a test for random, sine, mixed mode and shock
- Generating reports and proof of test



Target Audience

- People who are totally new to vibration testing.
- People who are running vibration test systems and wish to improve their knowledge.
- People who write vibration test specifications and need to understand the realities of vibration testing.
- People who design products which have to survive vibration.
- People about to purchase a vibration test system.

Language

The training will be held in English.



TREVOR HARRISON - Customer Training Manager

Trevor Harrison joined LDS Test and Measurement in June 2007 as the Customer Training Manager for Vibration Test and Data Acquisition. Since joining LDS Test and Measurement he has successfully completed seminars to many customers in Europe and the USA.

Trevor gained his academic qualifications within the field of electronics and later included electromechanical and dynamic testing to his skills and disciplines.

Course Content

Vibration Theory, Terminology Used, Practical Solutions to Problems & Vibration Control Techniques



Registration Details

To register for the course please fax at [044-28172676](tel:044-28172676) or E-mail to sales@adams-tech.net with the following information: Name, Designation, Organization Address, Telephone/Fax no & E-mail id.

Admissions strictly by registration only and restricted to two participants per organization

Course Fee

Rs.5600 per participant inclusive of service tax

- ▣ Include Delegate kit, Course material and a course certificate
- ▣ Lunch and Refreshment included

Date : 15th & 16th July 2009
Course Venue : GreenPark Hotel
Greenlands, Begumpet
Hyderabad – 500016. India

Date : 20th & 21st July 2009
Course Venue : ARAI FID, Chakan,
Pune, India

Date : 23rd & 24th July 2009
Course Venue : Aeronautical Society of India
Suranjandas Road,
(Off Old Madras Road)
New Thippasandra,
Bangalore – 560 075. India



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