



Product Service

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Add value.**

Design considerations for vibration environments

20th May 2010

TÜV Product Service
TÜV SÜD Group

TÜV®



Date: 20th May 2010
Cost: £199 or £175 if booked
before 15 of April 2010
Time: 9am - 5pm

Introduction

Understanding vibration theory, testing and the operating environment are essential for all designers of products that generate or encounter vibration. The effects of vibration and the requirements of testing standards are not widely understood, which ultimately causes significant delays in product development, poor product reliability, product safety issues and longer lead times to market. The number of failures that occur during vibration testing remains high in spite of improvements in specifications and better simulation of environments.

Course Objectives

At the end of the course, delegates will be able to:

- Understand where vibration comes from and its potential affects
- Interpret basic vibration measurements
- Develop potential solutions to mitigate vibration problems

Course Content

- Review of vibration fundamentals
- Vibration environment sources and effects
- Vibration isolation and control
- Measurement of vibration.
- Practical demonstrations of isolation and vibration control

Benefits of Attending

Test failures can be dramatically reduced if designers have a good understanding of vibration theory, testing and the vibration environment. Where failures do occur, only an understanding of the root cause enables effective fault rectification.

Delegates

This is a very practical course which has been developed for product designers, project managers or those involved in specifying test procedures. The course would also benefit anyone with an interest in quality and reliability issues affected by vibration environments. Delegates do not require an in-depth theoretical knowledge of vibration theory, but would have previously had some experience of the practical issues involved in designing, testing or operating products which have encountered vibration related issues.

Methodology

This is a very practical one-day course, which is limited to a maximum of 10 delegates. There will be a number of practical exercises and experiments to support learning. There will also be the opportunity to have a tour of our test facilities and to observe a vibration test.



Location: Octagon House,
Fareham,
Hampshire
P015 5RL

Presenter

Dave Wilson

David Wilson has unparalleled experience of the practical engineering problems associated with vibration. He is a Director of TÜV Product Service Limited and an experienced trainer. He has had an operational responsibility for the Aerospace, Defence and Industrial testing, certification and consulting business for the past 20 years. His previous experience includes the design and manufacture of machinery, testing of military and aerospace equipment, military vehicle trials and ordnance safety.

Why Choose TÜV Product Service

TÜV Product Service is the largest Environmental and EMC Testing laboratory in the UK. Our expertise is supported by over 50 years' experience in testing, certification and training, and by over 100 accreditations and approvals. This experience and our enviable state of the art testing facilities at Octagon House place us in an unparalleled position to share our expertise, knowledge and experience of a wide range of products and vibration issues.

**To book a place a today,
please contact Sandie Peacock on**

Tel: 01489 558227

Email: speacock@tuvps.co.uk

Web: www.tuvps.co.uk/training



**For further information on our training services or to view our
open course programme, visit our website:**

www.tuvps.co.uk/training

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