



## Noise Control Best Practice Workshop

### — practical and low cost solutions to common noise control problems

Industry wastes considerable money and resources on noise control measures that are not best practice. Quoting the HSE guidance on the Control of Noise at Work Regulations - *"these regulations are concerned with controlling noise, not measuring it..."* Consequently, companies must quantify the noise control options rather than simply repeating risk assessments. In addition, hearing protection can no longer be used for long term risk management unless it can be proved that noise control is impractical. This workshop gives practical guidance on how to tackle any noise problem and provides details of the best practice control techniques that can be used to reduce costs dramatically. Multi-media case studies are used as illustrations throughout.

#### Who will benefit

Health and safety professionals, project, maintenance and sales engineers who are involved in all aspects of noise and noise management and who need to be able to evaluate and / or implement basic noise control measures in the workplace.

#### Learning outcomes

After the course delegates should

- understand the behaviour of sound and of the materials used in noise control
- be able to carry out the diagnostic process that is the foundation of any noise control project
- have a good understanding of the fundamental noise control techniques and be able to implement them in the workplace
- be able to develop an effective Buy Quiet policy
- have a tool-kit of simple, practical D.I.Y. noise control techniques for common problems

#### Aims

To provide delegates with the practical knowledge and skills necessary for them to be able to evaluate and apply best practice techniques to solve many common noise control problems.

#### Prerequisites

Delegates would benefit from having some prior knowledge of industrial noise and, if possible, should bring case studies for discussion during the workshop.

*Many thanks for your excellent, well grounded and humorous talk yesterday - much appreciated by everybody there... Some of your real world illustrations and solutions were certainly thought provoking... the best noise presentation I've ever been to... BOHS*

#### Programme

##### Introduction

- Productivity, Cost and Engineering Issues  
*Review of the various approaches to noise control with their cost implications*

##### Terminology, Sound Propagation and Materials

- A practical guide to the jargon. Behaviour of sound; transmission, reverberation, standing waves, absorption, insulation, distance decay, barriers, acoustic material characteristics etc

##### Diagnosis: the Key to Best Practicable Means

- The diagnostic procedures that must be followed to ensure that the best practicable noise control techniques are selected for any project (occupational, environmental, design). 50% to 90% cost savings are typical across virtually all projects as a result of using this approach.

##### The Noise Control Options

- Comparing "typical" practice with Best Practice, including:- fans and pneumatics - vibration damping and isolation - enclosures - engineering techniques. Details of the optimum solutions to 10 most common noise control problems are included.

##### Practical workshop

- Discussion of noise control options based on practical examples taken from the company applications brought by delegates

##### Buy Quiet Noise Specifications

- An outline of the main elements and practical implications involved in implementing an effective Buy Quiet noise purchasing policy. Discussion of practical examples supplied by delegates.

##### Engineering Noise Control Case Studies

- Examples of innovative engineering noise control across a range of applications

There is ample opportunity for delegates to discuss particular noise problems during the programme.

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