



The South African Institution of Mechanical Engineering

Fundamentals of Industrial Sound Propagation and Industrial Noise Workshop

Duration - 1 Day : Time - 08h30 – 16h30 (Registration at 08h00)

Manual, teas and lunch provided

CPD Validation Number : SAIMEchE-0758-02/17

This workshop will earn delegates 1 credit in Category 1

This workshop is suitable for SAIMEchE Groups 2, 3a & 3b

SAIMEchE Group Classification

0 = Non-technical,
e.g., HR, Finance

1 = Candidate
(including GCC) with <
5 years experience

2 = Professional
(including GCC) with <
15 years experience

3a = Professional and
Appointment with > 15
years experience with
specialist interest

3b = Senior
Management with >
15 years experience

OVERVIEW

The aim of the workshop is to provide delegates with the fundamentals in Sound Propagation to equip them to understand better how sound affects machinery, equipment and people in the work environment.

WORKSHOP OUTCOME AND BENEFITS

The workshop will equip engineers with the knowledge on how to perform detailed calculations in Sound Pressure levels, Sound Intensity and Sound Power.

The delegate will be able to superimpose the effect of more than 1 sound source at a specific location.

Also, the workshop will equip the delegate with the specific knowledge needed in preparation for the GCC qualification. An understanding of noise is required as part of the Annexure E documentation.

The workshop will also prepare those that are aiming to obtain their Pr. Eng registration to be able to perform detailed calculations and understand the impact of noise on the health of people.

Engineers who use measuring instruments for measuring sound levels will understand the underlying fundamentals of the measurements that are obtained.

CONTENT OF WORKSHOP

- The concept of dB
- What are we hearing?
- Sound Pressure vs. Sound Intensity Levels
- The dBA scale
- Sound Propagation
- Practical Examples from factory environment

WHO SHOULD ATTEND

- Project and Design Engineers
- Electrical and Mechanical Engineers
- Engineering Managers
- Maintenance Managers
- Environmental Professionals

[Click here](#) for a registration form