



INSTITUTE OF MATERIAL, MALAYSIA

IMM Rotating Equipment Training Course

Practical Approach to Precision Balancing Methods Course

Code: PBM

HRDF claimable

Unbalance is one of the most common causes of machinery vibration and is present to some degree in all machines. Unbalance causes vibration of the entire rotor assembly which in turn, causes excessive wear in bearings, bushing, seals, shafts, gears, couplings *etc.* Thus, understanding the correct way to counter this unbalance force is important to reduce the unbalance to acceptable limits and improve the overall performance of the machine.

Reference standards (reference used shall refer to the latest published document):

- TBA

Who should apply

Engineers, supervisors and senior inspectors

Objectives

- To provide participants with practical knowledge of the unbalance problems in machinery.
- To expose and guide the participants on step-to-step procedure of carrying out unbalance rectification and correction.
- To provide participants with knowledge in the latest state of the art technology, skills and experience in solving unbalance problems.

Course topics

- Principle of vibration
- Data acquisition
- Signal processing
- Condition monitoring
- Fault analysis & correct action
- Equipment testing & diagnostics
- Reference standards
- Reporting & documentations
- Fault severity determination
- Rotor/bearing dynamics

Course duration

3 days

Pre-requisite(s)

No previous working experience is required.

Certificate awarded

Certificate of attendance