



INSTITUTE OF MATERIAL, MALAYSIA

IMM Rotating Equipment Training Course

Practical Approach to Precision Alignment Methods Course

Code: PAM

HRDF claimable

Misalignment is one of the leading causes of damage to bearings, seals, coupling and other component inside the rotating equipment. Based on record given by rotating equipment experts, a substantial amount of machinery problems is due to misaligned shaft. Machinery that is forced to shut down due to this problem can contribute to loss of extensive revenue and damages that required repair or replacement of internal parts which is extremely expensive. A well-aligned shaft prevents excessive loading of bearings and avoid fatigue failure. Thus, increasing the useful life of machinery. The ultimate aim shall be that the participants are able to practically and confidently carry out the alignment task in the fields.

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

- TBA

Who should apply

Engineer, maintenance and technical support personnel, personnel who direct activities related to alignment and machine reliability, and management personnel whose involve alignment of rotating machinery.

Objectives

- To provide participants with practical knowledge of accurately align any type of rotating machines in a variety of different ways
- To pose a step-to-step procedure in executing the alignment
- To familiarise and educate participants in using different alignment methods namely Conventional methods (rim & face method, reverse dial indicator methods) and precision laser alignment method
- To assess the experienced craftsmen on their capability and exposure of the latest technology available
- The ultimate aim shall be that the participants are able to practically and confidently carry out the alignment task in the fields

Course topics

- Definition
- Precision alignment check & corrective methods
- Alignment kits/training kits
- Application of laser alignment system
- Alignment consideration for specific of machine & conditions

Course duration

3 days

Pre-requisite(s)

No previous working experience is required.

Certificate awarded

Certificate of attendance