



INSTITUTE OF MATERIAL, MALAYSIA

IMM Rotating Equipment Training Course

Troubleshooting Techniques for Rotating Equipment Course

Code: TRE

HRDF claimable

Rotating equipment like turbines, compressors, turboexpanders *etc.* are very important equipment to any process plant. Normally, there are a lot of machinery problems associated to this equipment such as misalignment, unbalance, fluid induces instability *etc.* which will interrupt the smooth running and effect its efficiency, thus interrupting the production of the plant. There are various established techniques to troubleshoot this machinery problem which are accepted and established internationally and understanding and mastering such knowledge and skills will be of extreme benefit to the operating plants in ensuring a continuous flow of production by minimizing downtime upon knowing the actual problems of the respective machines. As such, this course is tailored to educate the participants on these internationally accepted troubleshooting techniques.

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

- TBA

Who should apply

Engineers, supervisors and inspectors

Objectives

- To educate participants with the latest internationally accepted techniques to troubleshoot rotating equipment problem.
- To familiarize participants with a variety of troubleshooting techniques with hands-on practical exercises.

Course topics

- Maintenance philosophies
- Troubleshooting techniques
- Infrared thermography (basic)
- What is vibration
- Vibration detection devices
- Find the root cause of vibration problems
- Simulating vibration source and analysis
- Electrical motor analysis & practical
- Lubrication fundamental
- Identifying root causes with oil analysis
- Lubrication management best practices
- Infrared thermography

Course duration

3 days

Pre-requisite(s)

No previous working experience is required.

Certificate awarded

Certificate of attendance