



INSTITUTE OF MATERIAL, MALAYSIA

IMM Rotating Equipment Training Course

Practical Approach to Inspection and Maintenance of Steam Turbine Course

Code: IMST

HRDF claimable

Proper understanding on the design, operation and maintenance aspects of steam turbines and auxiliaries play an important role in ensuring the success of operating the mentioned machines. Misinterpretation on the inspection or the maintenance procedures will result in bigger damage to its integrated system. Repair or replacement of this equipment is expensive and loss of revenue while machinery is down can spell the difference between continued prosperity or financial disaster. Thus, it is vital for managers, engineers, foreman and trade personnel to equip themselves with sufficient practical understanding of steam turbines and auxiliaries and practising the correct inspection and maintenance methodology adopted worldwide.

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

- TBA

Who should apply

Engineers, supervisors, operators and senior technician

Objectives

- To provide participants with practical knowledge of the inspection and maintenance matters related to steam turbines.
- To expose and guide the participants on step-to- step procedure of inspection and maintenance of steam turbines
- To provide participants with knowledge in the latest state of art technology, skills and experience in solving steam turbine problems, both maintenance and inspection.

Course topics

- Basic theory of steam turbine
- Types of steam turbine
- Steam turbine blading concept
- Construction and function of major turbine parts
- Associate system
- Governing and control system of steam turbine
- Rotor dynamic behaviour of machinery
- Inspection technique
- Preventive and corrective maintenance
- Breakdown/overhaul maintenance
- Disassembling/assembling activities
- Clearance check/reading
- Inspection of part (Liquid Penetrant Testing (PT)/Magnetic Particle Testing (MT))
- Precision alignment

Course duration

4 days

Pre-requisite(s)

No previous working experience is required.

Certificate awarded

Certificate of attendance