



Machinery Diagnostics Institute

MDI – Machinery Diagnostics Institute are worldwide professionals providing class room and virtual online interactive technical trainings, based in Queensland – Australia.

Teaching staff are real practitioners specialized in delivering knowledge of Machinery Diagnostics techniques from basic levels to the most advanced.

Helping technical teams to develop their knowledge, knowing how to best utilize the most advanced diagnostics techniques and improve site performance through delivering accredit trainings and guiding them to the best practices.



**Vibration
Analysis**



**Thermal
Imaging**



**Machinery
Lubrication**



**Ultrasound
Testing**



**Turbo-
Machinery
Analysis**



**Machinery
Balancing**



**Shaft
Alignment**



**Asset
Reliability**

OUR PARTNERS





Mobius Institute
Industry's Leading Vibration
Analysis Training & Certification
Providers

Vibration Analysis CAT IV

ISO 18436 – VA CAT IV

The primary focus of the course is the measurement, analysis, dynamics & balancing of turbomachinery.

Topics will include proximity probe and casing measurements, orbit, and centerline plot analysis, rotor dynamics (natural frequencies, modeling), journal bearings (design, fluid film instabilities), and flexible rotor balancing, as it will also cover torsional vibration.

MDI – Machinery Diagnostics Institute Provides this training,

Accredit certification of successful completion is issued from **Mobius Institute** after the training.

Accredit certification according to ISO 18436 is issued from **Mobius Institute** after passing the ISO examination.

Course Parts - Part 1:

Focus must be given on advanced signal processing, structural dynamics, corrective action (isolation, resonance correction, etc.), ODS, and modal analysis.

Along with the topic review we will go through the worked examples and students will be given poll questions to test their knowledge.

Part 2:

Focus must be given on proximity probe measurements, conventions, orbits, center line plots, journal bearings, rotor dynamics, diagnosing common faults associated with journal bearings and turbo-machinery, and flexible rotor balancing.

Along with the topic review we will go through the worked Examples and students will be given poll questions to test their knowledge.

VCAT-IV CANDIDATE PROFILE

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This course is intended for the vibration analyst who will:

- Have a minimum of 5 years of experience
- Have a senior role in the condition monitoring team, but you want to go beyond and truly reach the peak of the vibration world
- Be able to understand the measurements associated with critical turbomachinery and other fluid-film bearing machines
- Be able to do everything the Category III can do – only better!



MDI - Machinery Diagnostics Institute - Gracemere, Queensland – Australia
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