



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**



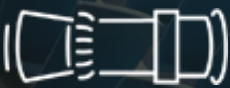
**Thermal
Imaging**



**Machinery
Lubrication**



**Ultrasound
Testing**



**Turbo-
Machinery
Analysis**



**Machinery
Balancing**



**Shaft
Alignment**



**Asset
Reliability**

OUR PARTNERS





Thermal Imaging CAT II

ISO 18436 – IRT 2

Level II Certified Infrared Thermographer® is a five-day course for the application of quantitative thermal imaging and temperature measurement for P/PM, Condition Monitoring, Quality Assurance, and Forensic Investigations.

This course covers advanced infrared theory, equipment calibration, error sources, cross-verification with contact thermometers, advanced equipment operation, use of windows and filters, assigning temperature limits and repair priorities, and quantitative report generation.

Infrared Thermography – CAT II Training Main Topics:

1. Thermometry Fundamentals

- Temperature scales and conversions
- Absolute and relative temperatures
- Classes and benefits of contact thermometers
- Classes and benefits of non-contact thermometers
- Identifying and reducing errors

2. Advanced IR Theory

- Units for measuring radiant power
- Relationship between power and temperature
- Planck's blackbody curves

3. Temperature Measurement Error Sources & Corrections

- Calibration
- Reflectance
- Emittance
- Transmittance
- Target Width/Distance Ratios

4. Traceable Temp. Limits: How Hot is Too Hot

- Delta T classifications
 - NETA, Mil Spec, and other standards
- Absolute temperature classifications
 - ANSI, IEEE, NEMA standards for electrical systems
 - correction formula for load and ambient temperature
- Developing limits for your equipment

5. Preparing Quantitative Reports

- Data to gather
- Report procedures
- Image processing software capabilities
- Report generation software capabilities



Infraspection Institute is recognized by the Society for Maintenance & Reliability Professionals (SMRP) as an approved provider of continuing education and training aligned with key subject areas related to reliability and physical asset management.





Gain Accredit Certification

All of MDI – Machinery Diagnostics Institute courses are ISO 18436-4 compliant and follow its standard.

Our accredited courses allow you to apply for certification exams of the most recognized certification providers worldwide – Infraspection Institute –

Infraspection Institute courses provide the best practical experience based on hundreds of case studies, learn all the tricks you need to do the job efficiently.



Acquire Hardcopy References

Acquire a textbook for your reference & bank of questions with answers on each training topic



Infraspection Institute

Infraspection Institute is the oldest independent infrared training and infrared certification firm in the world.

Founded in 1980, Infraspection Institute has trained and certified over 10,000 thermographers worldwide.

With over 40 years in business, Infraspection Institute literally pioneered the infrared training industry.



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