

Vibration Analysis Training

ISO Category I / ASNT Level 1

Vibration Analysis Category I

14 - 17 May 2019
Christchurch
New Zealand

The "Entry Level" Category I course is intended for personnel who are new or have 6 months vibration monitoring and analysis experience. It is ideal for reliability engineers, operators, fitters, planned maintenance personnel and anyone in the engineering field needing to know more about vibration analysis.

Unique
Benefits

The course focusses on periodic, single channel data collection and analysis for condition based maintenance programmes. A foundation is established for in- depth understanding of spectrum and waveform relationships.

See live simulators at:

www.viaustralia.com.au
www.mobiusinstitute.com

Course materials

- Pre-study materials
iLearnvibration internet logon sent on registration
- interactive assessments during course
- 300 page course notes
- short-form booklet
- diagnostic mousepad
- certificate
- membership card



When you register for this course, you will receive the iLearnVibration pre-study internet logon. Prepare and you will succeed!

Our course utilises modern slides, animations, innovative simulations, and live case studies - all delivered by certified instructors.

You can take the optional certification examination. The training course and optional examination are accredited, providing certification by the Mobius Institute Board of Certification according to the ISO 18436-2 Category I standard, and the ASNT SNT-TC-1A Level 1 standard.



U4 5 Dickens Street
Parkdale, Victoria, 3195
Australia

Vibration Institute of Australia

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Course Summary

Maintenance practices

- Breakdown, preventive, predictive and RCM

Condition monitoring

- Review of condition monitoring technologies: Vibration, oil, wear debris analysis, infrared thermography, ultrasonic acoustic emission, electric motor testing

Principles of vibration

- Motion, r.m.s./peak/peak-peak, frequency/period
- Displacement, velocity and acceleration
- Units and unit conversion
- Waveform and spectrum (FFT)
- Natural frequencies
- Basic forcing frequency calculations

Data acquisition

- Instrumentation
- Transducers and transducer mounting
- Measurement point naming conventions
- Routes/surveys: Loading and unloading the route
- Data collection
 - Following a route
 - Repeatable data collection
 - Test procedures
 - Observations: utilising your time effectively in the field
 - Recognizing bad data

Equipment knowledge

- Rotating equipment types and applications
- Rolling element bearings and journal bearings
- Review of failure modes and appropriate use of condition monitoring technologies

Basic vibration analysis

- Overall level measurements
- Spectrum analysis:
 - Harmonics, sidebands and the analysis process
 - Alarm limits, trending and exception reports
- Fault diagnosis:
 - Imbalance, misalignment, looseness, eccentricity, resonance
 - Defects associated with bearings, gears, belts, electric motors

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Venue - To be confirmed



Course duration

The course consists of three and half days of training including an optional 2 hour exam.

Hours

Training days:

Days 1-3: 8.00 am to 5.00 pm

Day 4: 8.00am to 1.00pm

Exam: Day 4 11.00am to 1.00pm

Fees

Tuition & Materials AUD\$2650

3.5-day training
Pre-study materials
Diagnostic Reference Guide
Course notes

Exam & certification AUD\$330

2 hour exam

Prices in Australian Dollars

Lunches and refreshments included



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