



VA CAT II

ISO 18436 Category II

Level 2 Vibration Analyst Training & Certification

Distance Learning (Online) Training

Learn from the world's leading provider of vibration analysis training & certification. The Reliability Institute of Australia provides Mobius Institute on-line courses - the most understandable and interesting training available.

The Mobius Crystal Clear™ training methodology is unique, using hundreds of 3D animations and software simulations that make complex concepts easier to understand.

Mobius Institute is ISO/IEC 17024 and ISO 18436-1 accredited, meaning that you are assured that your certification meets the highest global standards, and our training teaches you everything you need to know according to the ISO 18436 standard for vibration analyst training.

There is no more highly regarded training & certification available.



VA CAT-II Course Overview



The CAT-II course is intended for people who have mastered the basics but who need to be able to take good data, analyze a range of fault conditions, and understand balancing and alignment. Students learn how to test machines correctly, how to diagnose faults accurately, perform additional diagnostic tests for verification, how to set vibration alarm limits, and how to correct certain types of faults. You will understand what your analyzer settings mean so you can take the best measurements.

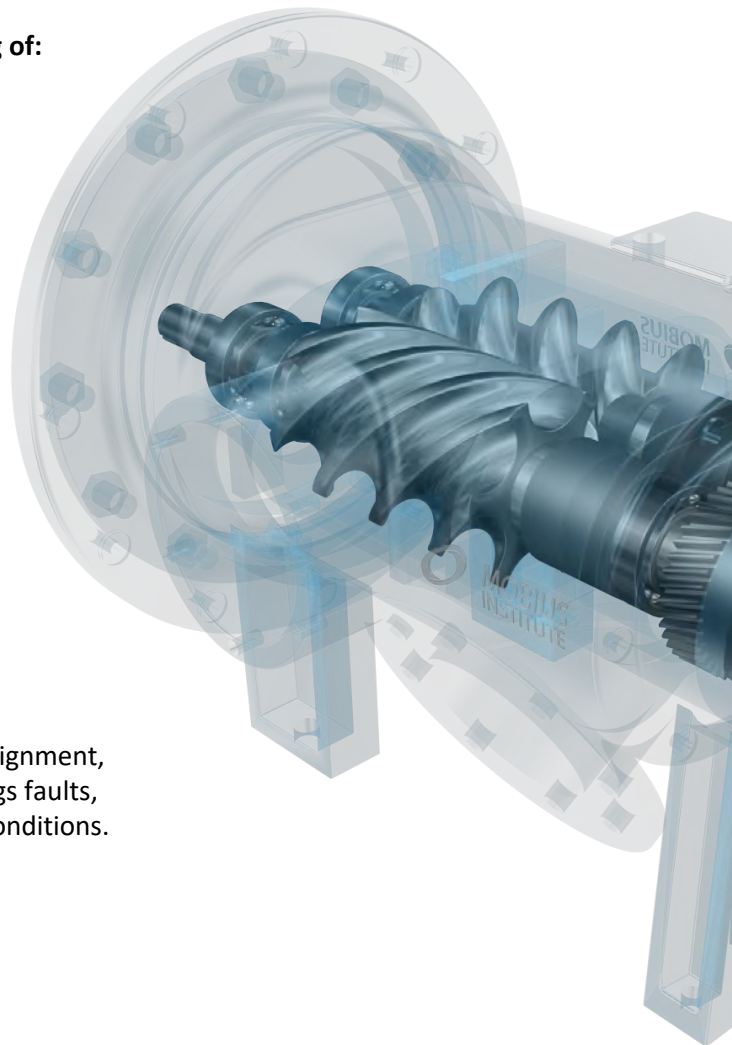
You will learn why the vibration signatures change the way they do and how to use time waveform analysis and phase analysis to verify the fault condition.

Mobius makes learning about vibration analysis unique. We use 3D animations, Flash simulations, and numerous software simulators that completely demystify vibration analysis. While vibration training courses have traditionally been very theoretical, difficult to understand, (and boring), you will be captivated by the Mobius Training methods, and you will enjoy our practical approach.

You will take away skills that you can immediately apply to your job, and you will truly understand what you are doing.

You will come away from the course with a solid understanding of:

- How a well-designed program and a reliability centered maintenance approach improves the business you work for.
- The condition monitoring technologies: acoustic emission, infrared analysis (thermography), oil analysis, wear particle analysis, & motor testing via supplementary training.
- How machines work; via supplementary self- study using the “Equipment Knowledge” section of the course.
- How to select the correct measurement location and axis, and collect good, repeatable measurements.
- What the Fmax, resolution, averaging and other analyzer settings mean, and how to select the optimum settings for a wide variety of machine types.
- How to analyze vibration spectra, time waveforms, envelope (demodulation), and phase measurements.
- How to diagnose problems like: unbalance, eccentricity, misalignment, bent shaft, cocked bearing, looseness, rolling element bearings faults, journal bearing faults, gearbox faults, resonance, and other conditions.
- How to set alarm limits manually and with statistics.
- How to balance and align a machine, and correct a resonance condition.



VA CAT-II Course Description

Format:

On-Line training is within an LMS (Learning Management System). The course is made up of videos of short professional studio recordings, presented by Jason Tranter, the renowned Mobius CEO and founder.

It is very comprehensive and informative, with audio commentary and animated visual slides.

A colour bound printed course manual is provided to follow the course and study offline.

Students can choose either **4 months study access or Life-Time access** (with no expiry date.)

For both options, students can watch the videos more than once.

Duration: Minimum of 48 hours of training

Exam & Certification.

On-line Exam by Invigilation (authorised supervision)
70% passing grade.

Certification is valid for 5 Years.

Certification Prerequisite:

Prior experience is not required for the training course, but 18 months of experience is required for certification.

Category II - Candidate Profile:

- You already have a good understanding of the vibration fundamentals.
- You want to be capable of confidently diagnosing a wide range of fault conditions, correcting certain conditions, and taking accurate measurements.
- You want to increase your skills in the field of machine condition & vibration analysis.
- You recognise the importance of being certified to international standards (ISO-18436) by an accredited certification body.
- You want to become a key member of your condition monitoring team

Topics covered:

- Review of maintenance practices
- Review of condition monitoring technologies
- Principles of vibration; Review of basics, waveform, spectrum (FFT), phase and orbits
- Understanding signals: modulation, beating, sum/difference
- Data acquisition
- Signal processing
- Vibration spectrum analysis
- An introduction to time waveform analysis
- An introduction to orbit analysis
- Phase analysis: bubble diagrams and ODS
- Enveloping (demodulation), shock pulse, spike energy, PeakVue™
- Fault analysis
- Equipment testing and diagnostics including impact testing (bump tests) and phase analysis
- Corrective action
- Running a successful condition monitoring program
- Acceptance testing
- Review of ISO standards

The BEST Analysts are MOBIUS Trained™

VA CAT-II Course Outcomes

Outcome:

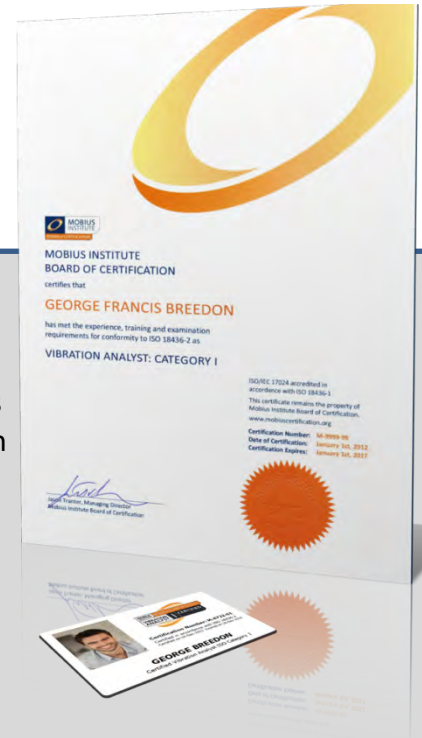
The key is that with the VCAT-II course, you will transition from being a person who is primarily capable of collecting data to a person who can accurately and consistently diagnose faults on critical machinery and in most cases, prevent or correct them.

VA CAT-II Certification

All Mobius certified analysts receive a pdf copy of their certificate as well as a personalized logos with their certification number and name for their own professional use.

Mobius Institute maintains a list of all certified analysts on their website and provides each analyst with a certification confirmation.

For more information about Mobius Institute's accreditation, and the recognition of your certification by the ISO 18436 standard, please visit <https://www.mobiusinstitute.com/>



To learn more about other Classroom or On-Line training options or to enquire, contact RELIABILITY INSTITUTE OF AUSTRALIA



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Authorized Mobius Training Partner

