

Vibration analysis training – ISO Category II

Condition monitoring and diagnostics of machines

Course overview

Category II vibration analysts are qualified to perform basic vibration analysis using single-channel instruments according to established procedures, to set up instruments, and to maintain a database of results.

The course offers an optional examination, giving successful candidates an internationally recognised formal qualification in accordance with ISO 18436-2.

The course includes technical presentations, case studies, demonstrations, tutorials, and hands-on workshops.

Learning outcomes

Participants will be able to:

- Understand the principles of vibration and how they relate to machine condition
- Perform vibration analysis of machinery and components by interpreting vibration waveforms and spectral data
- Learn to accurately measure vibration data and select correct analyser setup
- Perform impact tests to determine natural frequencies
- Understand single-plane machine balancing
- Maintain a database of results and trends
- Interpret test results in accordance with applicable specifications and standards
- Identify erroneous measurements

Participants will receive

- Basic machinery vibrations class notes
- Course workbook
- Attendance certificate
- Certification to ISO 18436-2 upon successful completion of the optional exam
- Morning tea and lunch



Email
training@vipac.com.au
to register

Event details

Course duration

4 days, or 4.5 days with optional exam

Location

Vipac Adelaide office
33 Bacon Street
Hindmarsh SA 5007

Dates

19–23 April 2021

Course fees

AUD \$2,690
(+ \$600 for optional certification exam)
Prices exclude GST

Registration

Vipac requires registration four weeks prior to the course commencing.

Payment options

Payment can be made with credit card (see below) or approved purchase order.

Catering

Morning tea and lunch are provided.

Eligibility requirements

18 months of experience
32 hours of formal training



Vipac is an international representative of the Vibration Institute, and uses Institute training materials and certification exams.

For further information please contact:

Peter Moncrieff Consulting Engineer, Adelaide office

08 8334 0968 | training@vipac.com.au

vipac.com.au

Schedule – topics covered

Day 1

- Vibration principles
- Frequency, amplitude, measurements, phase, and resonance
- Data acquisition
- Selecting a transducer, and transducer mounting methods and locations

Day 2

- Data processing
Understanding the data collector setup, including sampling time, resolution, averaging and windowing
- Fault diagnostics
Case studies and diagnosing issues with rolling element bearings, gearboxes, electric motors, pumps and fans

Day 3

- Fault diagnostics (continued)
- Machine testing
Routine measurements, impact testing, and coast-down measurements
- Machine balancing
Balancing of single-plane rotating machinery

Day 4

- Condition evaluation
Assessing vibration severity levels and interpreting standards
- Periodic monitoring
Determining the frequency of data collection and setting alarms
- Review and practice exam

Day 5 (optional half-day)

- Optional certification exam



Registration form

Please email completed forms to training@vipac.com.au.

If you have special dietary requirements, speak English as a second language, or have a disability that may affect your ability to complete the examination, contact us on training@vipac.com.au.

Course details

Company name:

Contact's name:

Course location:

Course dates:

Address:

Attendee's name:

Attendee's phone:

Attendee's email:

Payment details

Course details	Fee	GST	Total fee incl. GST (AUD)
No exam (4 days)	\$2,690	\$269	\$2,959
With exam (4.5 days)	\$3,290	\$329	\$3,619

Amount payable: AUD \$ (including GST)

Credit card (a surcharge of up to 1.29% applies)

Call us on +61 3 9647 9700 to pay over the phone or complete the form below.

Card type: Visa Mastercard Expiry: /

Card number:

Cardholder's name:

Cardholder's signature: Date:

Company purchase order

Purchase order number:

Authorised representative's signature:

Terms and conditions:

- Vipac requires registration four weeks prior to the course commencing.
- Vipac reserves the right to cancel or reschedule the course if necessary, and in this case a full refund will be offered.
- A full refund will be provided for cancellations received up to four weeks before commencement of the course. Following this, a 50% refund will be provided.
- Attendee substitution may occur if approved by Vipac.

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