

# Vibration Analysis and Reliability

## Training & Certification

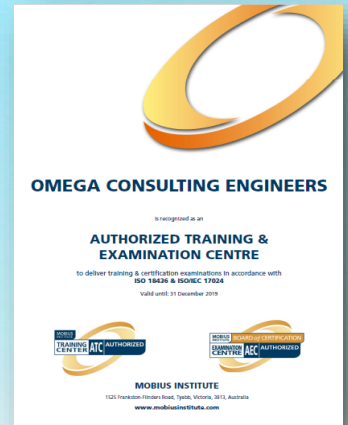
Omega Consulting Engineers Pty Limited is recognized by Mobius Institute as an authorized training & examination centre to deliver training & certification examinations in accordance with ISO 18436 & ISO/IEC 17024 — Vibration Analysis Categories 1-3 & Reliability.

### Category 2

This training is suitable for those who have at least 12 months experience and a basic understanding of vibration theory and terminology. The course provides an in-depth study of machinery faults and their associated spectrum, time waveform and phase characteristics.

### Category 2 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



**Date:**

**Duration:** 4.5 days Training & 3 hours Exam

For more information visit:  
[www.ocengineering.com.au](http://www.ocengineering.com.au)  
[www.mobiusinstitute.com](http://www.mobiusinstitute.com)

Day	Time	Description
1	8.00 am — 5.00 pm	Training
2	8.00 am — 5.00 pm	Training
3	8.00 am — 5.00 pm	Training
4	8.00 am — 5.00 pm	Training
5	8.00 am — 12.00 pm	Training
	12.00 pm — 3.00 pm	Exam



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