



Vibration Analysis: Level 1

Course Overview:

This course is an introductory level in to vibration analysis and will enable the candidate to establish competency in the fundamental key skills and understanding of monitoring plant and process equipment.

The course exceeds the ISO 18436-2 Category I standard and meets the ASNT Level I Recommended Practice. The certification exam can be taken after the course.

Why VCI Limited?

We are an approved training organisation (ATO) for the British Institute of Non-Destructive Testing (BINDT) and are able to provide technical training in both theory and practical elements across the full scope of Maintenance and Reliability subjects.

All of our accredited training courses exceed the syllabus guidelines for ISO and PCN standards and where required training material can be adjusted to align with our clients' business and operational development needs.

Learning Outcomes:

The course aims are designed to give the candidate a firm understanding of the following concepts and practices:

- Appreciation of Condition Monitoring Technologies
- Principles of Vibration
- Data Acquisition
- Basics of Signal Processing
- Principles of Condition Monitoring
- First Level Vibration Analysis
- Corrective Action and Recommendations
- Plant and Process Equipment Knowledge

Assessment:

The candidate will undergo a series of formative assessments throughout the duration of the course to ensure learning has taken place.

Towards the end of the course there are two internal summative assessments in the form of a practical and written exam. Candidates will be expected to achieve a 70% overall score in order to pass the course. Upon successful completion of the internal examination, candidates can undertake the BINDT ISO 18436-2 certification.

Candidate:

The course is aimed at candidates who want to get a greater understanding of the concepts of vibration analysis and the benefits it can offer to every day plant operation. Whether you have a basic understanding of vibration or not or if you want to gain a wider knowledge of these principles this course is designed for you.

Duration

Including examination – 5 Days

**Progression:**


Candidates who successfully achieve the Vibration Analysis Level 1 can progress to Vibration Analysis Level 2.

Course Structure:

The candidate will be involved both classroom based study and practical based study. You will be using designated hardware and software to be able collect readings and study real vibration patterns and signatures

Contact:

For more information regarding our training courses, contact us:

 +44(0) 151 909 4545

 support@vcilimited.com

Further Information

<http://www.bindt.org/downloads/CMGEN.pdf>

<http://www.bindt.org/downloads/CMGEND.pdf>

Essential Reading Material:

Handbook of Rotor Dynamics

Publish: Kreig

ISBN 1-5755240882

Vibration Analysis Pocket Guide

Publish: BINDT

ISBN 0-903132-36-2

Vibration Monitoring and Analysis Handbook

Publish: BINDT

ISBN 0903132397