AGENDA VCAT-III Senior Vibration Analyst Training



This course is intended for the vibration analyst who will:

Have a minimum of 3 years of experience • Have a senior role in the condition monitoring team

Have others report to them to ______verify diagnoses

Be responsible for the most complex fault conditions (with the possible exception of sleeve bearing, flexible rotor machines)

Need to perform complex tests to validate fault conditions (e.g., resonance) and find a solution

What will you learn from taking this course?

There is a great deal to learn, but it will help you to perform your role with confidence. The topics covered in this course include:





Want to be a leader of the vibration team or take a leading role in diagnosing faults and making repair recommendations

Want to understand all data collector options, special test capabilities, all analysis tools and understand the widest range of fault conditions

Seek to become certified to international standards (ISO-18436) by an accredited certification body

- Review of condition monitoring technologies and the ISO standards
- Signal processing and data acquisition
- Time waveform analysis
- Phase analysis
- Dynamics (natural frequencies and resonance)
- Testing for natural frequencies
- Operating Deflection Shape (ODS) analysis
- Modal analysis and intro to FEA
- Correcting resonances
- Rolling element bearing fault detection
- Journal bearing fault detection

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- Electric motor testing
- Pumps, fans, and compressors

Want to understand all condition monitoring technologies, how and when to apply them

Want to understand machine dynamics (natural frequencies, resonance, ODS), how to perform resonance testing and how to correct resonance problems

Use the training and certification as the next step in a rewarding career as a vibration analyst

- Gearbox fault detection
- Corrective action
- Running a successful condition monitoring program
- Acceptance testing
- Review of ISO standards

The key is that with the VCAT-III course, you will transition from being a vibration analyst who should be supervised to a person who is capable of running the program, being a senior consultant, solving difficult problems, and taking a leadership role.

Compliance:

- Training and certification: ISO 18436-2
- Certification: ISO 18436-1, ISO/IEC 17024
- Training: ISO 18436-3





38 hours, typically over four days

Format

Live public course

On-site course

Virtual online course

Video distance learning online courses

Exam:

- Four hours
- Ioo multiple-choice questions
- 70% passing grade
- Can be taken online or in-person at the course

Certification requirements:

- Training course completed
- 36-months of vibration analysis experience, verified by an independent person
- Have previously been certified to VCAT-II by a MIBoC approved certification body
- Pass the exam
- Valid for 5 years



For more information visit our website or contact our customer experience coordinator, Emily Jones

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