



This course is intended for the vibration analyst who will:

Have a minimum of 5 years of experience

Have a senior role in the condition monitoring team, but you want to go beyond and truly reach the peak of the vibration world

Be able to understand the measurements associated with critical turbomachinery and other fluid-film bearing machines

Be able to do everything the Category III can do – only better!

- Proximity probe and casing measurements
- Orbit and centerline plot analysis
- Rotor dynamics (natural frequencies, modeling)
- Journal bearings (design, fluid film instabilities)
- Flexible rotor balancing
- Torsional vibration

The key is that with the VCAT-IV course, you will transition from being a very good vibration analyst to a vibration super-hero!

Duration

82 hours:
Everything on video, then a 5-day course with exam

Format

Expert Vibration Analyst (VCAT-IV) is a two part course. Part one is a distance learning online course. Part two is a public classroom instructor-led course.

What will you gain 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:

- Advanced signal processing
- Cross channel measurements
- Dynamics (mass/stiffness/damping, natural frequencies, modes)
- Resonance testing (run-up/coast down tests, impact tests, ODS, modal analysis)
- Corrective action (flow control, resonance correction, isolation, and damping)

Compliance:

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

Exam:

- Five hours
- 60 multiple-choice questions, with calculations required
- 70% passing grade
- Can be taken online or in-person at the course

Certification requirements:

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

