

# AGENDA

## ISO CATEGORY III – ADVANCED VIBRATION ANALYST TRAINING & CERTIFICATION



The Vibration Specialist Advanced course is intended for personnel who have at least two years vibration analysis experience and Category II certification by a recognized certification body. The course provides an in-depth study of diagnostic measurement techniques and the associated applications of the techniques. It is expected that the attendee is either the leader of the vibration team or takes a leading role in diagnosing faults and making the final recommendation. This person must fully understand all data collector options, special test capabilities, all analysis tools and must understand the widest range of fault conditions.

### DETAILED TOPIC LIST:

- Review of Condition Monitoring Technologies & the ISO Standards
- Signal Processing and Data Acquisition
- Time Waveform Analysis
- Phase Analysis
- Dynamics (Natural Frequencies & Resonance)
- Journal Bearing Fault Detection
- Electric Motor Testing
- Pumps, Fans & Compressors
- Gearbox Fault Detection
- Corrective Action
- Testing for Natural Frequencies
- Operating Deflection Shape (ODS) Analysis
- Modal Analysis & Intro to FEA
- Correcting Resonances
- Rolling Element Bearing Fault Detection
- Running a Successful Condition Monitoring Program
- Acceptance Testing
- Review of ISO Standards



FOR MORE INFORMATION VISIT OUR WEBSITE OR CONTACT OUR CUSTOMER EXPERIENCE COORDINATOR, EMILY JONES