



DATA ANALYSIS & DIAGNOSTIC

Courses for Power and Mining Industries

VibroSystM's three day analysis and diagnostic courses* were created to communicate the importance of machine condition monitoring and its influence on predictive maintenance. From the selection of specific, need-oriented monitoring equipment, to data collection interpretation, these courses focus on enlightening its attendees while giving them the required resources to monitor their machines with maximum efficiency.

Content

Hydro and Mining Industries

- Monitoring Equipment Justification
- Introduction to the ZOOM® Software
- ZOOM Software Measurement and Graph Types
- Introduction to the Interpretation of Air Gap Results
- Air Gap Monitoring
 - Basic Terminologies and Standards
 - Rotor Evaluation
 - Stator Evaluation
 - Transient Conditions
- Vibration Monitoring
 - Basic Monitoring Strategies
 - Basic Measurement Principles
 - Installation and Calibration
 - Data Collection and Interpretation
 - Acceleration & Velocity Interpretation
- PD Training (specifically for the Hydroelectric Industry)
 - Theory, Hardware, and Software

Turbo Industry

- Monitoring Equipment Justification
- Introduction to the ZOOM Software
- Hardware for Vibration Monitoring
- Introduction to Stators
- Instrumentation Selection Criteria
- Introduction to Basic Measurement Principles
- Vibration Data Analysis
- Rotor Design
- Rotor Inter-Turn Short-Circuit Detection Techniques
- Stray Flux Monitoring
 - Hardware
 - Software and Analysis
- Generator Operation (cycling, VARS & Watts, power factor, etc.)
- PD Training
 - Theory, Hardware, and Software

Target Audience

- Power and Mining Industry Personnel
- Utility Decision Makers
- Facility Owners
- Plant Managers
- Operation and Maintenance Personnel
- Engineers and Technicians

Important Information

Each participant will receive the course manual in PDF form. For those wishing to receive a printed version, please advise VibroSystM when placing your order.

Each participant must confirm their presence 4 weeks ahead of time in order to receive the Attestation Certificate at the end of the course.

**If translation services are required, the course will be extended over 5 days.
The content of each course is subject to change.*

Publication: 2018-12-10