



# TRAINING

## Vibration monitoring of turbo machines: case studies

### OBJECTIVE

Rotating machines are subjected to continuous stress that is likely to initiate vibrations, the extent of which may lead to serious damage. This module is a detailed study covering the interpretation of vibration behaviour of major turbo machines. These cases are all based on known problems and measured with the Laborelec Vibration Monitoring System (LVMS), such as it is used on more than 100 shaft lines around the world.

### TARGET GROUP

The level and course content is adaptable to the participants desires (e.g. maintenance or operations, I&C,...)

### DURATION

1 day

### CONTENT OF THE TRAINING

- Rub (Newkirk, Intermittend rub,...)
- Thermal unbalance of the shaft
- Blade loss
- Vibrations due to unbalance following to assembly problems
- Asynchronous vibration due to instabilities in the oil film
- Steam whirl
- Effect of alignment on vibrations

### PARTICULAR ASPECTS

This course will provide technical and practical training in the areas of rotating machine vibrations. A basic vibration knowledge is necessary to follow this course.

### Responsible

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