

## Turbogroup vibratory problems: 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 vibratory behaviour in major turbogroups based on case studies of known vibratory problems.

### ■ Target group

The level and the course contents are adapted to the participants (e.g. maintenance or operations)

### ■ Duration

1 day

### ■ Content of the training

- Thermal unbalance of the shaft axis due to friction between the rotor and the stator
- Loss of blades
- Vibrations due to imbalance following assembly problems
- Asynchronous vibration due to the instability of the oil film or aerodynamic excitation
- Effect of alignment on vibrations

### ■ Particular aspects

This course will provide technical and practical training in the areas of rotating machine vibration. Practical training can be arranged using rotating machines designed for laboratory use.

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