



Turbine maintenance Plant maintenance

Regular maintenance of turbines contributes significantly to maintain the power unit in a good condition. In any decision related to maintenance, a variety of factors has to be taken into account by the responsible personnel. In this training, reasons for maintenance are considered against the backdrop of typical aging phenomena and their effects.

After having participated, attendees shall be familiar with various options for the condition monitoring and analysis of hydropower turbines. Moreover they shall know which factors are relevant for a successful maintenance process. Training material includes practical examples that underline theoretical principles.

Date and location of the session

2018-09-18 from 08:30 to 16:30
in Heidenheim an der Brenz, Germany

Course content

Introduction

- Historical Development
- Standards and definitions

Objectives of maintenance

- Terms of maintenance

Maintenance methods

- Introduction to maintenance methods
- Focus analysis
- Autonomous maintenance
- Scheduled maintenance
- Maintenance prevention
- Education and Training
- success factors

Assessment of plant conditions

- Visual inspection
- Noise perception
- Color penetration test
- Ultrasound exam
- X-ray examination
- Coating test

Causes of deterioration

- Corrosion
- Erosion
- Cavitation
- Wear

Viewing of the large turbine hall

Advantages

- + Experts with up-to-date specialist knowledge
- + Learning from practical examples and solutions
- + Viewing the large turbine hall
- + Certificate of participation
- + Seminar handout

Trainer

Voith experts with many years of experience in planning, maintaining and modernizing turbines.

Target groups

Engineers, maintenance and repair specialists, and technical personnel responsible for maintaining water turbines. Relevant experience in hydropower engineering and a knowledge of the structure of turbines are required for this seminar.

Minimum number of participants

5 participants

Participation fee

€900 plus VAT per participant, including documents, beverages and lunch

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