

# Hydropower Maintenance Expert

## Module 3: Concepts and trends

### Course content

General safety considerations on the following levels

- National law
- Norms
- Method statement and risk assessment
- HSE plan

### Total productive maintenance (TPM)

- Introduction to TPM method
- Elements of TPM
- Success factors
- Recommendation for implementation
- Case studies

### Digital trends and Voith solutions in maintenance

- Types of intelligent hydropower solutions
- OnCare.Acoustic: Intelligent sound analysis for hydropower plants
- OnCare.Asset Hydro: Solution for efficient asset management
- OnCare.Health Hydro: Analytical tool for condition-based maintenance

### Technical excursion (1 day)

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### Duration, date and training venue

5 days, date to be agreed  
in Heidenheim an der Brenz, Germany

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### Learning objectives

- + Understand how to contribute to safe behavior and processes taking different levels into account
- + Know the TPM method and link TPM tools to case studies
- + Know relevant digital trends and solutions for maintenance

### Trainer

Various Voith experts with many years of experience in safety, TPM or digitalization.

### Target groups and prerequisites

Engineers who are responsible for electrical or mechanical maintenance of hydropower plant equipment.

Prerequisites:

- Electrical or mechanical engineering qualification (Bachelors or Masters)
- Attended training "Hydropower Maintenance Expert Module 2: Focus on maintenance"

Maintenance management staff who want to understand concepts of safety, TPM and digitalization trends in maintenance.

Prerequisites:

- Engineering qualification (Bachelors or Masters)
- Min. 5 years of working experience in power generation or attended training "Hydropower technology overview"

### Price

24,900 EUR per module and option for 10 trainees\*

*\*Including visit costs, lunch and refreshments; excluding WHT, VHT, travel and accommodation costs for trainees; validity date is 2021-02-28.*

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